www.virachemical.com

Trade name:

# HGH Fragment 176-191

Chemical name: HGH Fragment 176-191 Acetate

| PRINTING DATE: | DATE OF COMPILATION: | REVISION: |
|---|---|---|
| **09.04.2026** | **09.04.2026** | **09.04.2026** |

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name: HGH Fragment 176-191

Chemical name: HGH Fragment 176-191 Acetate

Other names: HGH Frag 176-191; AOD-9401; Growth hormone fragment

CAS Number: 66004-57-7

EINECS Number: -

Index number: -

Registration number:

Registration number for this substance has not yet been assigned or the substance is manufactured / imported in a volume that does not require its registration.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use: SU24 — Scientific research and development

Application of the substance / mixture:

For research use only. Not for food, drug or diagnostic use. Raw material for research and development.

Not recommended uses: All except above mentioned uses.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

ViraChem j.d.o.o.

Savska cesta 42

10000 Zagreb, Croatia

OIB: 73782597071 | MBS: 060500406

E-mail: info@virachemical.com

Web: virachemical.com

Further information obtainable from: info@virachemical.com

### 1.4 Emergency telephone number

Poisons Centres in Europe (consultation in case of acute intoxication):

https://poisoncentres.echa.europa.eu/appointed-bodies

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

Additional information:

Although the product is not classified as dangerous, it may show signs of danger (see sections 9-12 SDS).

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

Precautionary statements: Void

Additional information: EUH210 — Safety data sheet available on request.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: According to the information available, the product does not meet criteria such as PBT — persistent, bioaccumulative and toxic (substance on its own or in a mixture with concentration >= 0.1% by weight).

vPvB: According to the information available, the product does not meet criteria such as vPvB — very persistent, very bioaccumulative (substance on its own or in a mixture with concentration >= 0.1% by weight).

Determination of endocrine-disrupting properties:

According to the information available, the product does not meet the criteria for having endocrine disrupting properties (substance on its own or in a mixture with concentration >= 0.1% by weight).

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

CAS No.: 66004-57-7

Description:

HGH Fragment 176-191 Acetate

Additional information:

Peptide sequence: Phe-Leu-Arg-Ile-Val-Gln-Cys-Arg-Ser-Val-Glu-Gly-Ser-Cys-Gly-Phe

Formula: $C_{78}H_{125}N_{23}O_{23}S_2 \cdot xCH_3COOH$

Molecular weight: 1817.12 g/mol (free base)

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

General information:

Consult a doctor and show this safety data sheet. Remove contaminated clothing and shoes. In case of any uncertainty or if symptoms occur, seek medical assistance. Treatment is symptomatic.

After inhalation:

Supply fresh air. Remove to fresh air and monitor breathing. Consult a doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Generally, the product does not irritate the skin. Consult a doctor if irritation persists.

After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor.

After swallowing:



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention and appropriate follow-up.

### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### 4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Treatment is symptomatic.

## SECTION 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing agents:

Use water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

Unsuitable extinguishing agents: Not determined.

### 5.2 Special hazards arising from the substance or mixture

This product does not burn under normal conditions. In the event of fire, may emit toxic fumes. Avoid inhalation of explosive and flammable gases.

· Carbon dioxide ($CO_2$)

· Carbon monoxide (CO)

· Nitrogen oxides ($NO_x$)

· Sulphur oxides ($SO_x$)

Collect contaminated firefighting water separately. Do not allow it to enter the drainage system.

### 5.3 Advice for firefighters

Protective equipment: Self-contained breathing apparatus and full chemical protective clothing must be worn in case of fire.

Additional information:

Cool containers exposed to heat with water spray. Remove undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel:

Use standard laboratory practices and appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

#### 6.1.2 For emergency responders:

More info in section 5.

### 6.2 Environmental precautions

Keep away from drains. Do not allow product to reach groundwater, water courses or sewage systems.

### 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as per section 13. Keep in suitable, closed containers for disposal. Completely evacuate and ventilate the contaminated area.

### 6.4 Reference to other sections

See section 8 for required PPE. | See section 13 for disposal.



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

## SECTION 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. No special precautions are necessary if used appropriately.

Remove contaminated clothing and wash before reuse. Wash hands thoroughly after handling.

Fire and explosion protection: No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage requirements:

Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 °C (long-term); -2 to +8 °C (short-term)

Common storage facility:

Do not store in incompatible containers. Store away from foodstuffs.

Do not store with incompatible materials (see section 10).

### 7.3 Specific end use(s)

For research use only. Use in a laboratory environment where possible.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Ensure adequate ventilation. Use in a fume hood where applicable. Ensure all engineering measures described under section 7 are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### 8.2.2 Individual protection measures — personal protective equipment:

Respiratory protection: In case of inadequate ventilation, use a suitable respirator approved to EN 149 (EU) or NIOSH (US). If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand protection: Chemical-resistant gloves, plastic or rubber (EN 374). Use proper glove removal technique. Wash and dry hands thoroughly after handling.

Eye / face protection: Approved safety goggles (EN 166).

Skin / body protection: Wear suitable protective clothing as protection against splashing or contamination. Appropriate footwear should be selected based on the task and risks involved.

Thermal hazards: Void.

#### 8.2.3 Environmental exposure controls:

Close packaging properly during and after work. Store containers stably.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid / Lyophilised powder

Colour: White

Odour: Little to none.

Odour threshold: Not available.

Melting point / freezing point: Not available.



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

| |
|---|
| Boiling point / initial boiling point: Not available. |
| Flammability: Not available. |
| Lower explosion limit: Not available. |
| Upper explosion limit: Not available. |
| Flash point: Not available. |
| Auto-ignition temperature: Product is not self-igniting. |
| Decomposition temperature: Not available. |
| pH: Not available. |
| Kinematic viscosity: Not available. |
| Solubility in water: Not available. |
| Partition coefficient n-octanol/water (log value): Not available. |
| Vapour pressure: Not available. |
| Vapour density: Not available. |
| Relative density: Not available. |
| Particle characteristics: See item 3. |
| Explosive properties: Not available. |
| Oxidising properties: Not available. |
| VOC (EC): Not determined. |
| Evaporation rate: Not available. |

## SECTION 10 STABILITY AND REACTIVITY

| |
|---|
| **10.1 Reactivity: Stable under recommended transport and storage conditions.** |
| **10.2 Chemical stability: Stable under recommended storage and handling temperatures.** |
| **10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.** |
| **10.4 Conditions to avoid: Heat, moisture.** |
| **10.5 Incompatible materials** |
| Strong acids. |
| Strong alkalis (bases). |
| Strong oxidising agents. |
| Strong reducing agents. |
| **10.6 Hazardous decomposition products: In combustion may emit toxic fumes. No known decomposition information available.** |

## SECTION 11 TOXICOLOGICAL INFORMATION

| |
|---|
| **11.1 Information on hazard classes — Regulation (EC) No 1272/2008** |
| Acute toxicity: Not available. |
| Skin corrosion/irritation: Not available. |
| Serious eye damage/irritation: Not available. |
| Respiratory or skin sensitisation: Not available. |
| Germ cell mutagenicity: Not available. |



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

Carcinogenicity: Not available. IARC: Not available.

Reproductive toxicity: Not available.

STOT-single exposure: Not available.

STOT-repeated exposure: Not available.

Aspiration hazard: Not available.

Routes of exposure

Routes of entry anticipated: Oral, dermal, inhalation.

Short-term / immediate effects: Not available.

Potential delayed effects: Not available.

Long-term / chronic exposure: Not available.

Additional information:

To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been fully investigated.

### 11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

Other information: See the above information in section 11.

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1 Aquatic toxicity: Not available.

### 12.2 Persistence and degradability: Not available.

### 12.3 Bioaccumulative potential: Not available.

### 12.4 Mobility in soil: Not available.

### 12.5 Results of PBT and vPvB assessment

PBT: Not available.

vPvB: Not available.

### 12.6 Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

Not available.

Do not allow product to reach groundwater, water courses or sewage systems, even in small quantities.

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product:

Dispose of waste in accordance with applicable national, regional, or local regulations. Avoid dispersal of spilled material to soil, waterways, drains and sewers. Large spills must be dealt with by qualified disposal personnel.

Contaminated packaging:

Dispose in the same manner as unused product. Dispose of in a regulated landfill site or other approved method in accordance with national legislation.

European waste catalogue

16 03 06: Organic wastes other than those mentioned in 16 03 05

15 01 02: Plastic packaging



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

20 01 39: Plastics

## SECTION 14 TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR/RID, and IATA.

**14.1 UN number: Does not meet the criteria for classification as hazardous for transport.**

**14.2 UN proper shipping name: Does not meet the criteria for classification as hazardous for transport.**

**14.3 Transport hazard class(es): Does not meet the criteria for classification as hazardous for transport.**

**14.4 Packing group: Does not meet the criteria for classification as hazardous for transport.**

**14.5 Environmental hazards: This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.**

**14.6 Special precautions for user: Not available.**

**14.7 Maritime transport in bulk (IMO instruments): Not applicable.**

## SECTION 15 REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

Directive 2012/18/EU — Major-accident hazards involving dangerous substances:

Named dangerous substances — ANNEX I: Substance is not listed.

Regulation (EU) 2019/1148 — Explosives precursors:

Annex I (Restricted): Substance is not listed.

Annex II (Reportable): Substance is not listed.

Regulation (EC) No 273/2004 — Drug precursors: Substance is not listed.

Regulation (EC) No 111/2005 — Drug precursors trade monitoring: Substance is not listed.

European legislation applicable

REGULATION (EC) No 1272/2008 (CLP) — Classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 1907/2006 (REACH) — Registration, Evaluation, Authorisation and Restriction of Chemicals.

COMMISSION REGULATION (EU) No 2020/878 — Amending Annex II to REACH.

Commission Regulation (EU) 2018/605 — Scientific criteria for endocrine disrupting properties.

DIRECTIVE 2008/98/EC — Waste framework directive.

**15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

## SECTION 16 OTHER INFORMATION

This information is based on our present knowledge. It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This material must only be handled by suitably qualified and experienced scientists in appropriately equipped and authorised facilities. The absence of a warning must not be taken to mean that no hazard exists.

Training hints: User should be trained in safe laboratory practice and good industrial hygiene practice.

Abbreviations and acronyms

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging — Regulation 1272/2008/EC

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com

| |
|---|
| IATA: International Air Transport Association |
| IMDG: International Maritime Code for Dangerous Goods |
| LC50: Lethal concentration, 50% of test population |
| LD50: Lethal dose, 50% of test population (median lethal dose) |
| PBT: Persistent, Bioaccumulative and Toxic |
| REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals — Reg. 1907/2006/EC |
| RID: Regulations Concerning the International Transport of Dangerous Goods by Rail |
| SDS: Safety Data Sheet |
| STOT: Specific Target Organ Toxicity |
| vPvB: Very Persistent and Very Bioaccumulative |
| VOC: Volatile Organic Compounds |



ViraChem j.d.o.o.
Savska cesta 42, 10000 Zagreb, Croatia
VAT HR73782597071 · OIB 73782597071 · MBS 060500406
info@virachemical.com · virachemical.com