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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

Ghrelin (rat) (trifluoroacetate salt)

Item No. 24458

Formal Name: glycyl-L-seryl-O-(1-oxooctyl)-L-seryl-L-phenylalanyl-L-leucyl-L-seryl-L-prolyl-L-α-glutamyl-L-histidyl-L-glutaminyl-L-lysyl-L-alanyl-L-glutaminyl-L-glutaminyl-L-arginyl-L-lysyl-L-α-glutamyl-L-seryl-L-lysyl-L-lysyl-L-prolyl-L-prolyl-L-alanyl-L-lysyl-L-leucyl-L-glutaminyl-L-prolyl-L-arginine, 2,2,2-trifluoroacetate

MF: $C_{147}H_{245}N_{45}O_{42} \bullet XCF_3COOH$

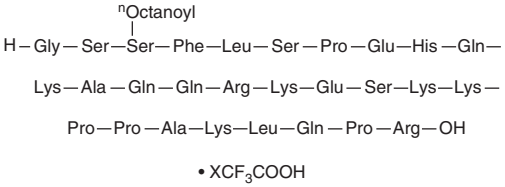
FW: 3,314.8

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ghrelin (rat) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the ghrelin (rat) (trifluoroacetate salt) in water. The solubility of ghrelin (rat) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Ghrelin is an endogenous gastrointestinal hormone and neuropeptide that binds to the growth hormone (GH) secretagogue receptor (GHS-R).[1,2] It increases intracellular calcium in CHO cells expressing rat GHS-R (EC_{50} = 2.5 nM) and induces GH release from primary rat pituitary cells (EC_{50} = 2.1 nM).[1] Ghrelin (10 nM) also reduces glucose-, arginine-, and carbachol-induced insulin release and arginine-induced somatostatin release from perfused rat pancreas.[3] It increases GH plasma levels in anesthetized rats, but does not affect follicle-stimulating hormone (FSH), luteinizing hormone (LH), prolactin, thyroid-stimulating hormone (TSH), or adrenocorticotropic hormone (ACTH) levels when administered at a dose of 10 µg per animal.[1] Ghrelin increases gastric motility in rats in a dose-dependent manner when administered intracranially into the lateral septum and increases food intake and body weight when administered intracerebroventricularly at a dose of 1 µg per animal.[4,5]

References

1. Kojima, M., Hosoda, H., Date, Y., *et al. Nature* **402(6762)**, 656-660 (1999).
2. Dickson, S.L., Egecioglu, E., Landgren, S., *et al. Mol. Cell Endocrinol.* **340(1)**, 80-87 (2011).
3. Egido, E.M., Rodriguez-Gallardo, J., Silvestre, R.A., *et al. Eur. J. Endocrinol.* **146(2)**, 241-244 (2002).
4. Gong, Y., Xu, L., Guo, F., *et al. J. Gastroenterol.* **49(2)**, 219-230 (2014).
5. Kamegai, J., Tamura, H., Shimizu, T., *et al. Diabetes* **50(11)**, 2438-2443 (2001).

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