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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



VnP-16 (trifluoroacetate salt)

Item No. 38839

Formal Name: (6S,9S,12S,15S,18S,21S,27S,30S,33S,36S,39S)-36-((1H-indol-3-yl)methyl)-1,6-diamino-30-(3-amino-3-oxopropyl)-21,27-bis(4-aminobutyl)-15,18-dibenzyl-39-carbamoyl-12,33-bis(4-hydroxybenzyl)-1-imino-9-isopropyl-7,10,13,16,19,22,25,28,31,34,37-undecaoxo-2,8,11,14,17,20,23,26,29,32,35,38-dodecaazadotetracontan-42-oic acid, trifluoroacetate salt

H-Arg-Val-Tyr-Phe-Phe-Lys-Gly-Lys-Gln-Tyr-Trp-Glu-NH₂
• XCF₃COOH

MF: C₈₂H₁₁₂N₂₀O₁₇ • XCF₃COOH

FW: 1,649.9

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

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

Laboratory Procedures

VnP-16 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the VnP-16 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. VnP-16 (trifluoroacetate salt) is soluble in the organic solvent DMSO at a concentration of approximately 2 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of VnP-16 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of VnP-16 (trifluoroacetate salt) in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

VnP-16 is a synthetic peptide fragment that corresponds to amino acids 270-281 of vitronectin, a multifunctional glycoprotein with roles in cell attachment, migration, and spreading.¹ It induces attachment and cell spreading of isolated human osteogenic cells, an effect that can be reversed by siRNA knockdown of β1 integrin, when applied to cell plates at a concentration of 9.1 μg/cm². VnP-16 induces osteogenesis of human skin-derived mesenchymal precursors and MC3T3-E1 mouse calvarial osteoblast precursors. *In vivo*, VnP-16 decreases IL-1α-induced bone loss and decreases the number of calvarial osteoclasts in mice. It also increases bone mineral density and decreases trabecular bone loss in a mouse model of ovariectomy-induced bone loss.

Reference

1. Min, S.-K., Kang, H.K., Jung, S.Y., *et al.* A vitronectin-derived peptide reverses ovariectomy-induced bone loss via regulation of osteoblast and osteoclast differentiation. *Cell Death Differ.* **25(2)**, 268-281 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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