Obtustatin triacetate

Cat. No.: HY-P1408A

Molecular Formula: $C_{184}H_{284}N_{52}O_{57}S_8 \cdot 3C_2H_4O_2$

Molecular Weight: 4573.21

Sequence: Cys-Thr-Thr-Gly-Pro-Cys-Cys-Arg-Gln-Cys-Lys-Leu-Lys-Pro-Ala-Gly-Thr-Thr-Cys-Trp-Lys-Thr-Ser-Leu-Thr-Ser-His-Tyr-Cys-Thr-Gly-Lys-Ser-Cys-Asp-Cys-Pro-Leu-Tyr-Pro-Gly (Disulfide bridge: Cys1-Cys10, Cys6-Cys29, Cys7-Cys34, Cys19-Cys36)

CTTGPCCRQCKLKPAGTTCWKTSLTSHYCTGKSCDCPLYPG (Disulfide bridge: Cys_1-Cys_{10}, Cys_6-Cys_{29}, Cys_7-Cys_{34}, Cys_{19}-Cys_{36}) (triacetate salt)

Sequence Shortening: CTTGPCCRQCKLKPAGTTCWKTSLTSHYCTGKSCDCPLYPG (Disulfide bridge: Cys1-Cys10, Cys6-Cys29, Cys7-Cys34, Cys19-Cys36)

Target: Integrin

Pathway: Cytoskeleton

Storage: Sealed storage, away from moisture

Powder	-80°C	2 years
	-20°C	1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (21.87 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.2187 mL	1.0933 mL	2.1866 mL
5 mM	0.0437 mL	0.2187 mL	0.4373 mL
10 mM	0.0219 mL	0.1093 mL	0.2187 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Obtustatin triacetate is a 41-residue non-RGD disintegrin. Obtustatin triacetate can be isolated from the venom of Vipera lebetina obtusa. Obtustatin triacetate is a potent and selective inhibitor of integrin α1β1 adhesion to type IV collagen. Obtustatin triacetate inhibits angiogenesis and may be used in cancer research[1].

REFERENCES

[1]. Paz Moreno-Murciano M, et al. NMR solution structure of the non-RGD disintegrin obtustatin. J Mol Biol. 2003 May 23;329(1):135-45.

[2]. Marcinkiewicz C, et al. Obtustatin: a potent selective inhibitor of alpha1beta1 integrin in vitro and angiogenesis in vivo. Cancer Res. 2003 May 1;63(9):2020-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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