

Product datasheet

AF12198, human type I interleukin receptor antagonist ab141983

1 Image

Overview

Product name	AF12198, human type I interleukin receptor antagonist
Description	Antagonist for human type I interleukin receptor
Biological description	Potent and selective antagonist peptide for human type I interleukin-1 receptor (IL1R1) (IC ₅₀ values are 8 nM, > 6.7 μM and > 200 μM for hIL1R1, hIL1R2 and hIL1R1, respectively). Blocks IL-1-induced expression of ICAM-1 and reduces IL-1β-induced IL-6 and IL-8 production. Also exhibits anti-inflammatory activity. Active <i>in vivo</i> .
CAS Number	185413-30-3
Chemical structure	<chem>Phe(Ac)-Glu-Trp-Thr-Pro-Gly-Trp-Tyr-Gln-Aze-Tyr-Ala-Leu-Pro-Leu-NH2</chem>

Properties

Molecular weight	1895.14
Molecular formula	C ₉₆ H ₁₂₃ N ₁₉ O ₂₂
Sequence	FEWTPGWYQXYALPL (Modifications: N-terminal acetyl; C-terminal amide; X-10 = Aze)
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in 3:1 water/acetonitrile to 1 mg/ml
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES

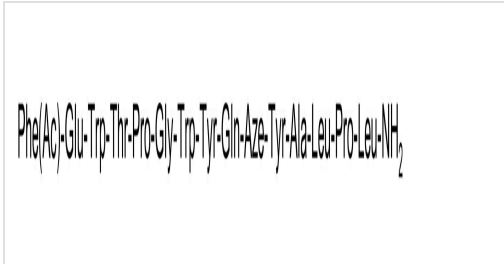
C[C@H]([C@@H](C(=O)N1CCC[C@H]1C(=O)NCC(=O)N[C@@H](Cc2c[nH]c3c2cccc3)C(=O)N[C@@H](Cc4ccc(cc4)O)C(=O)N[C@@H](CCC(=O)N)C(=O)N5CCC5C(=O)N[C@@H](Cc6ccc(cc6)O)C(=O)N[C@@H](C)C(=O)N[C@@H](CC(C)C)C(=O)N7CCC[C@H]7C(=O)N[C@@H](CC(C)C)C(=O)N)NC(=O)

[C@H](Cc8c[nH]c9c8cccc9)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H](Cc1ccccc1)NC(=O)C)O

Source

Synthetic

Images



2D chemical structure image of ab141983, AF12198, human type I interleukin receptor antagonist

Chemical Structure - AF12198, human type I
interleukin receptor antagonist (ab141983)

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