

Product Data Sheet

Product Name: ATWLPPR Peptide TFA

Cat. No.: GC34219

Chemical Properties

Cas. No.

SMILES O=C(N[C@@H]([C@H](O)C)C(N[C@@H](CC1=CNC2=CC=CC=C12)C(N[C@@H](CC(C)C)C(N3[C@@H](CCC3)C(N4[C@@H](CCC4)C(N[C@@H](CCCN(C)C(N)=N)C(O)=O)=O)=O)=O)[C@H](C)N.OC(C(F)(F)F)=O

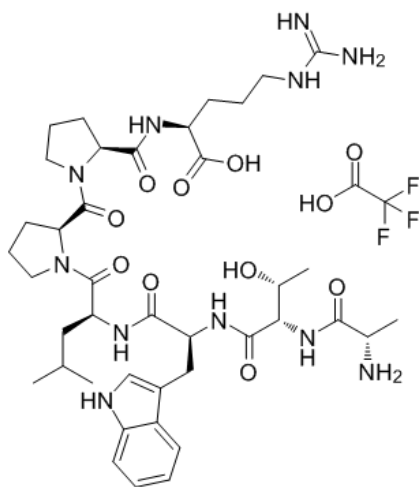
Formula $C_{42}H_{62}F_3N_{11}O_{11}$ M.Wt 954

Solubility Water : ≥ 50 mg/mL (52.41 mM) Storage -20°C , protect from light

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

ATWLPPR Peptide TFA, a heptapeptide, acts as a selective neuropilin-1 inhibitor, inhibits VEGF165 binding to NRP-1, used in the research of angiogenesis[1]. ATWLPPR Peptide TFA has potential in reducing the early retinal damage caused by diabetes[2].

ATWLPPR Peptide TFA is a selective neuropilin-1 inhibitor, inhibits VEGF165 binding to NRP-1 by

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

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82% at 100 μ M[1].

ATWLPPR (400 μ g/kg, s.c.) preserves vascular integrity and decreases the oxidative stress level, possibly reduces the early retinal damage caused by diabetes[2]. ATWLPPR prevents the increase of inflammation-associated proteins (GFAP, VEGF and ICAM-1) in the retina[2].

[1]. Starzec A, et al. Structure-function analysis of the antiangiogenic ATWLPPR peptide inhibiting VEGF(165) binding to neuropilin-1 and molecular dynamics simulations of the ATWLPPR/neuropilin-1 complex. *Peptides*. 2007 Dec;28(12):2397-402. [2]. Wang J, et al. The Neuropilin-1 Inhibitor, ATWLPPR Peptide, Prevents Experimental Diabetes-Induced Retinal Injury by Preserving Vascular Integrity and Decreasing Oxidative Stress. *PLoS One*. 2015 Nov 10;10(11):e0142571.

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