

Cilengitide TFA

Chemical Properties

CAS No. : 199807-35-7

Formula: C₂₉H₄₁F₃N₈O₉

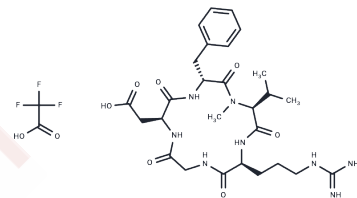
Molecular Weight: 702.68

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cilengitide is a potent integrin inhibitor for $\alpha\beta 3$ receptor and $\alpha\beta 5$ receptor with IC ₅₀ of 4.1 nM and 79 nM in cell-free assays, respectively; ~10-fold selectivity against gpIIb/IIIa. Phase 2.
Targets(IC ₅₀)	Autophagy, Integrin
In vitro	6-Thio-dG induces telomere dysfunction and results in progressive telomere shortening in telomerase-positive human cancer cells and hTERT-expressing human fibroblasts. In tested cancer cells, 6-thio-dG inhibits cell viability with IC ₅₀ values between 0.7 and 2.9 μ M. [1]

Solubility Information

Solubility	DMSO: 93 mg/mL (132.35 mM), Sonication is recommended. Ethanol: <1 mg/mL, H ₂ O: 8 mg/mL (11.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4231 mL	7.1156 mL	14.2312 mL
5 mM	0.2846 mL	1.4231 mL	2.8462 mL
10 mM	0.1423 mL	0.7116 mL	1.4231 mL
50 mM	0.0285 mL	0.1423 mL	0.2846 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nisato RE, et al. *Angiogenesis*, 2003, 6(2), 105-119.

Oliveira-Ferrer L, et al. *J Exp Clin Cancer Res*, 2008, 27:86.

Reardon DA, et al. *Genes Cancer*, 2011, 2(12):1159-1165.

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