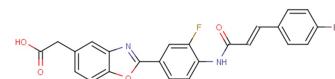


OGT 2115

Chemical Properties

CAS No.: 853929-59-6
Formula: C₂₄H₁₆BrFN₂O₄
Molecular Weight: 495.3
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	OGT 2115 is an effective and cell-permeable heparanase inhibitor (IC ₅₀ : 0.4 μM). OGT 2115 also suppresses heparan sulfate degradation activity. OGT 2115 has anti-angiogenic properties (IC ₅₀ : 1 μM).
Targets(IC ₅₀)	Heparanase: 0.4 μM
In vitro	OGT 2115 obviously inhibits the invasion and migration induced by Adriamycin. Furthermore, the MTT assay results display that OGT 2115 does not decrease the anti-proliferative effect of Adriamycin. Heparanase Inhibitor OGT 2115 can inhibit metastasis induced by endoplasmic reticulum (ER) stress in breast cancer cells, although not significantly. The number and rate of migrated cells are significantly reduced following the exposure of the cells to Tunicamycin + OGT 2115, compared with the control group [2].
In vivo	OGT 2115 displays a plasma concentration of ~10x the heparanase IC ₅₀ following oral dosing at 20 mg/kg when administered to mice[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.019 mL	10.095 mL	20.19 mL
5 mM	0.404 mL	2.019 mL	4.038 mL
10 mM	0.202 mL	1.009 mL	2.019 mL
50 mM	0.04 mL	0.202 mL	0.404 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Courtney SM, et al. Furanyl-1,3-thiazol-2-yl and benzoxazol-5-yl acetic acid derivatives: novel classes of heparanase inhibitor. Bioorg Med Chem Lett. 2005 May 2;15(9):2295-9.
- Li Y, et al. Suppression of endoplasmic reticulum stress-induced invasion and migration of breast cancer cells through the downregulation of heparanase. Int J Mol Med. 2013 May;31(5):1234-42.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481