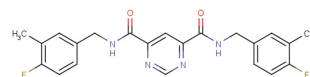


DB04760

Chemical Properties

CAS No.: 544678-85-5
Formula: C₂₂H₂₀F₂N₄O₂
Molecular Weight: 410.42
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DB04760 is a highly selective, non-zinc-chelating inhibitor of MMP-13 (IC ₅₀ : 8 nM). DB04760 obviously decreases paclitaxel neurotoxicity and has anticancer activity.
Targets(IC ₅₀)	MMP-13: 8 nM

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	2.437 mL	12.183 mL	24.365 mL
5 mM	0.487 mL	2.437 mL	4.873 mL
10 mM	0.244 mL	1.218 mL	2.437 mL
50 mM	0.049 mL	0.244 mL	0.487 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

- Engel CK, et al. Structural basis for the highly selective inhibition of MMP-13. Chem Biol. 2005 Feb;12(2):181-9.
- Thomas S. Lisse, et al. Paclitaxel-induced epithelial damage and ectopic MMP-13 expression promotes neurotoxicity in zebrafish. Proc Natl Acad Sci U S A. 2016 Apr 12; 113(15): E2189–E2198.

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