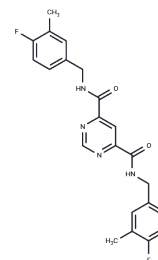


DB04760

## Chemical Properties

CAS No. : 544678-85-5  
 Formula: C<sub>22</sub>H<sub>20</sub>F<sub>2</sub>N<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 410.42  
 Storage: 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	DB04760 is a highly selective, non-zinc-chelating inhibitor of MMP-13 (IC <sub>50</sub> : 8 nM). DB04760 obviously decreases paclitaxel neurotoxicity and has anticancer activity.
Targets(IC <sub>50</sub> )	MMP

## Solubility Information

Solubility	DMSO: 90 mg/mL (219.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1826 mL	24.3653 mL
5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM	0.2437 mL	1.2183 mL	2.4365 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

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.

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