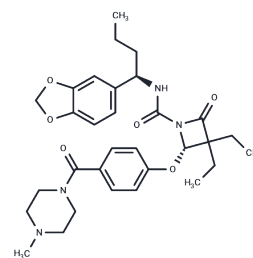


DMP 777

Chemical Properties

CAS No. :	157341-41-8
Formula:	C ₃₁ H ₄₀ N ₄ O ₆
Molecular Weight:	564.67
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	DMP 777 is an orally active inhibitor of human leukocyte elastase.
Targets(IC50)	Others,Serine Protease
In vivo	DMP-777-treated animals show marked foveolar hyperplasia in the fundus with the prominent expansion of diastase-resistant, PAS-positive surface mucous cells. DMP-777-treated rats display a marked reduction in H/K-ATPase staining parietal cells. DMP-777-induced loss of parietal cells is significantly ameliorated with coadministration of omeprazole. When DMP-777 is coadministered with omeprazole, there is an obvious decrease in BrdU-positive S-phase cells compared with rats that received DMP-777 alone [1]. After DMP-777(40 mg/kg; p.o.; monkeys) treatment, the only stereoisomer detected in the post-dose plasma samples is the starting material DMP-777, and no inversion of the configuration at positions 'a' and 'b' of DMP-777 has occurred in vivo [2]. Mist1-/- mice treated with DMP-777 show fewer chief cells to SPEM transitions and which treated with L635 demonstrates significantly fewer proliferative SPEM cells compared to control mice [3].

Solubility Information

Solubility	DMSO: 38.33 mg/mL (67.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (3.54 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	1.7709 mL	8.8547 mL	17.7095 mL
5 mM	0.3542 mL	1.7709 mL	3.5419 mL
10 mM	0.1771 mL	0.8855 mL	1.7709 mL
50 mM	0.0354 mL	0.1771 mL	0.3542 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

Ogawa M, et al. Omeprazole treatment ameliorates oxyntic atrophy induced by DMP-777. *Dig Dis Sci.* 2006 Mar;51(3):431-9.

Zagrobelyny J, et al. Separation of the four stereoisomers of a potent inhibitor (L-694,458) of human leukocyte elastase and its determination in human plasma using achiral/chiral chromatography with column switching. *J Pharm Biomed Anal.* 1998 Sep 1;17(6-7)

Weis VG, et al. Maturity and age influence chief cell ability to transdifferentiate into metaplasia. *Am J Physiol Gastrointest Liver Physiol.* 2016 Nov 23:ajpgi.00326.2016

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