

BMS-688521

Chemical Properties

CAS No. : 893397-44-9

Formula: C₂₆H₁₉Cl₂N₅O₄

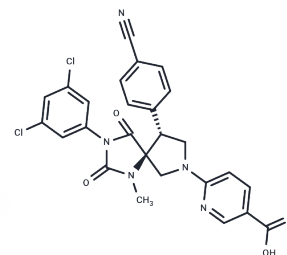
Molecular Weight: 536.37

Appearance: no data available

Storage:

store at low temperature, keep away from direct sunlight

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



Biological Description

Description	BMS-688521 BMS-688521 is an orally active and potent inhibitor of LFA-1/ICAM interaction, a small molecule antagonist of leukocyte function-associated antigen-1 (LFA-1), with potential anti-inflammatory activity.
Targets(IC50)	Integrin
In vitro	BMS-688521 inhibits the specific adhesion of mouse splenocytes and a mouse ICAM-1 expressing cell line, b.END3, with an IC ₅₀ of 78 nM[1].
In vivo	In BALB/c female mice, 6-8 weeks of age (OVA Lung Inflammation in Mice), BMS-688521 (1, 3, and 10 mg/kg; p.o.; BID for three days) exhibited significant inhibition of eosinophil accumulation at a dose of 1 mg/kg BID, with dose-dependent inhibition observed at 3 mg/kg and 10 mg/kg[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (149.15 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	1.8644 mL	9.3219 mL	18.6438 mL
5 mM	0.3729 mL	1.8644 mL	3.7288 mL
10 mM	0.1864 mL	0.9322 mL	1.8644 mL
50 mM	0.0373 mL	0.1864 mL	0.3729 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.

Reference

Watterson SH, et al. Small molecule antagonist of leukocyte function associated antigen-1 (LFA-1): structure-activity relationships leading to the identification of 6-((5S,9R)-9-(4-cyanophenyl)-3-(3,5-dichlorophenyl)-1-methyl-2,4-dioxo-1,3,7-triazaspiro[4.4]nonan-7-yl)nicotinic acid (BMS-688521). J Med Chem. 2010 May 13;53(9):3814-30.

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