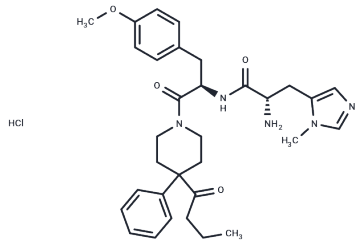
Data Sheet (Cat.No.T10568)

TargetMol
YOUR TARGET MOLECULES

BMS-470539 dihydrochloride

Chemical Properties



CAS No. : 2341796-82-3

Formula: C32H42ClN5O4

Molecular Weight: 596.17

Appearance: no data available

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

Biological Description

Description	BMS-470539 dihydrochloride is a highly potent and selective agonist of the melanocortin-1 receptor (MC-1R; IC50: 120 nM; EC50: 28 nM) with anti-inflammatory properties. It does not activate MC-3R and is a very weak partial agonist at MC-4R and MC-5R.
Targets(IC50)	Others
In vitro	An established HBL melanoma cell line stably expresses an NF-κB luciferase reporter, allowing for the observation that TNF-α at 0.5 ng/mL incites a dose-dependent escalations in NF-κB luciferase activity. Administering BMS-470539 to these HBL-NF-κB cells leads to a dose-dependent diminution in TNF-α-induced NF-κB luciferase activity, while it remains ineffective in altering luciferase reporter activity in the absence of TNF-α induction. In nontransfected HBL cells, BMS-470539 administration shows a dose-dependent deterrence of NF-κB nuclear translocation.
In vivo	The treatment of BMS-470539 (2.05-18.47 mg/kg; i.v.; for 125 minutes; WT and MC1 receptor recessive e/e mice) inhibits cell emigration and adhesion with no effect on cell rolling. It also inhibits the tissue expression of CXCL1/CCL2 [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6774 mL	8.3869 mL	16.7737 mL
5 mM	0.3355 mL	1.6774 mL	3.3547 mL
10 mM	0.1677 mL	0.8387 mL	1.6774 mL
50 mM	0.0335 mL	0.1677 mL	0.3355 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

Herpin TF, et al. Discovery of tyrosine-based potent and selective melanocortin-1 receptor small-molecule agonists with anti-inflammatory properties. J Med Chem. 2003 Mar 27;46(7):1123-6.

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