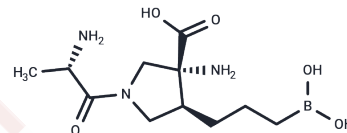


Numidargistat

Chemical Properties

CAS No. :	2095732-06-0
Formula:	C11H22BN3O5
Molecular Weight:	287.12
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	CB-1158 is a potent and orally bioavailable inhibitor of arginase (IC50s: 86 and 296 nM for recombinant human arginase 1 and 2).
Targets(IC50)	Others, Arginase
In vitro	CB-1158 is not directly cytotoxic to murine cancer cell lines [1]. CB-1158 inhibits native arginase 1 (Arg1) in human granulocyte, erythrocyte, and hepatocyte lysate (IC50s: 178 nM, 116 nM, and 158 nM) and blocks Arg1 in cancer patient plasma (IC50, 122 nM). CB-1158 shows no effect on NOS and it also shows potent inhibitory activity against arginase in human HepG2, K562 cell lines, and primary human hepatocytes (IC50s: 32, 139, 210 μM).
In vivo	CB-1158 in combination with PD-L1 blockade or gemcitabine inhibits tumor growth in mice bearing CT26 cancer cells. CB-1158 (100 mg/kg, p.o., twice per day) increases the number of tumor-infiltrating cytotoxic cells and decreases myeloid cells in mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4829 mL	17.4143 mL	34.8286 mL
5 mM	0.6966 mL	3.4829 mL	6.9657 mL
10 mM	0.3483 mL	1.7414 mL	3.4829 mL
50 mM	0.0697 mL	0.3483 mL	0.6966 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

Steggerda SM, et al. Inhibition of arginase by CB-1158 blocks myeloid cell-mediated immune suppression in the tumor microenvironment. J Immunother Cancer. 2017 Dec 19;5(1):101.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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