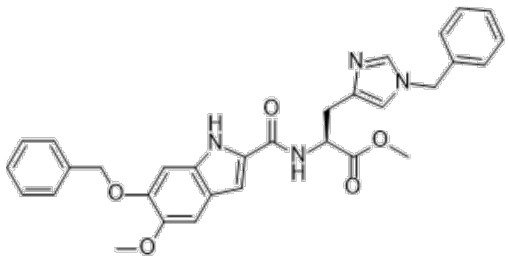
Product Data Sheet

Product Name: BMS-466442
Cat. No.: GC70490

Chemical Properties

Cas. No.	1598424-76-0		
Formula	$C_{31}H_{30}N_4O_5$	M.Wt	538.59
Solubility	DMSO : 100 mg/mL (185.67 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

BMS-466442 is a potent and selective inhibitor of asc-1 (alanine serine cysteine transporter-1), with an IC50 of 11 nM. BMS-466442 inhibits [3H] D-serine uptake into rat brain synaptosomes, with an IC50 of 400 nM. BMS-466442 can be used for schizophrenia research.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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BMS-466442 dose-dependently inhibits asc-1 activity in human asc-1 expressing cells and primary cultures with IC_{50} values of 36.8 ± 11.6 nM and 19.7 ± 6.7 nM, respectively [1].

References:

[1]. Brown JM, et al. In vitro Characterization of a small molecule inhibitor of the alanine serine cysteine transporter -1 (SLC7A10). J Neurochem. 2014 Apr;129(2):275-83.
[2]. Torrecillas IR, et al. Inhibition of the Alanine-Serine-Cysteine-1 Transporter by BMS-466442. ACS Chem Neurosci. 2019 May 15;10(5):2510-2517.

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