

Product Data Sheet

Product Name: BMS-466442

Cat. No.: GC70490

Chemical Properties

Cas. No. 1598424-76-0

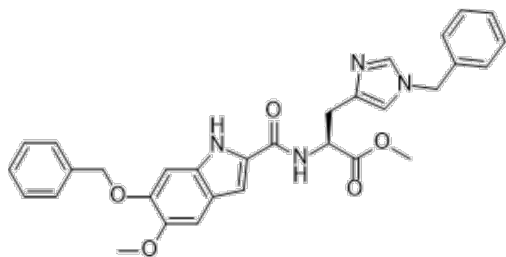
Formula $C_{31}H_{30}N_4O_5$ M.Wt 538.59

Solubility DMSO : 100 mg/mL (185.67 mM; Storage
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

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 IC₅₀ 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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