

**Product Name:**

**Catalog No.:** 6878

**Batch No.:** 1

CAS Number: 1598424-76-0

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>31</sub>H<sub>30</sub>N<sub>4</sub>O<sub>5</sub>·¼H<sub>2</sub>O

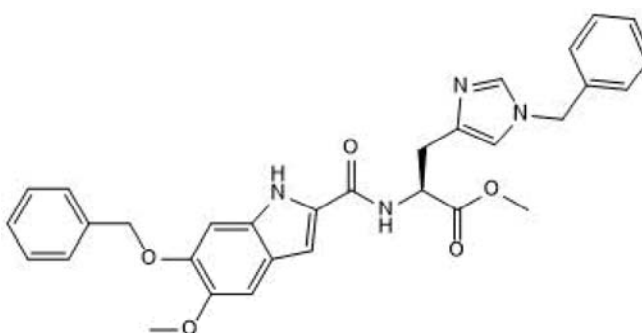
**Batch Molecular Weight:** 543.1

**Physical Appearance:** Light brown solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.56	5.66	10.32
Found	68.37	5.62	10.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:**

**Catalog No.:** 6878

**Batch No.:** 1

CAS Number: 1598424-76-0

**Description:**

BMS 466442 is a potent and selective asc-1 (alanine-serine-cysteine-1) transporter inhibitor (IC<sub>50</sub> values are 20 and 37 nM in rat primary cortical cultures and HEK cells expressing asc-1 respectively). Displays >1000-fold selectivity for asc-1 over LAT-2 and ASCT-2. This compound is unsuitable for in vivo studies.

**Physical and Chemical Properties:**

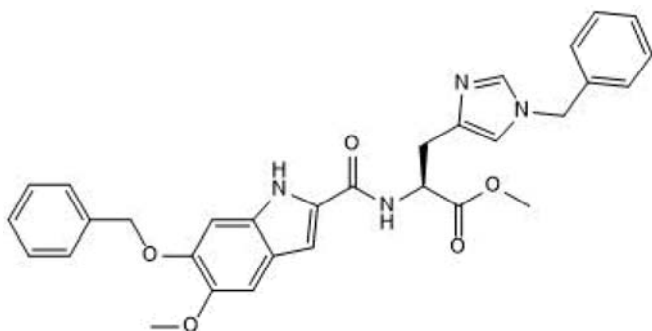
Batch Molecular Formula: C<sub>31</sub>H<sub>30</sub>N<sub>4</sub>O<sub>5</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 543.1

Physical Appearance: Light brown solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Torrecillas *et al*** (2019) Inhibition of the alanine-serine-cysteine-1 transporter by BMS-466442. *ACS Chem.Neurosci.* **10** 2510. PMID: 30821959.

**Brown *et al*** (2014) *In vitro* characterization of a small molecule inhibitor of the alanine serine cysteine transporter -1 (SLC7A10). *J.Neurochem.* **129** 275. PMID: 24266811.

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