

Product Name: AMBMP hydrochloride

Catalog No.: 6043

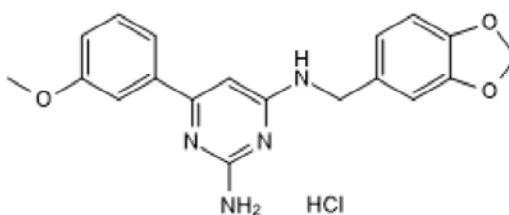
Batch No.: 1

CAS Number: 2095432-75-8

IUPAC Name: *N*⁴-(1,3-Benzodioxol-5-ylmethyl)-6-(3-methoxyphenyl)-2,4-pyrimidinediamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈N₄O₃.HCl
Batch Molecular Weight: 386.84
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.99	4.95	14.48
Found	58.73	4.73	14.22

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

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Description:

Wnt canonical signaling activator. Also inhibits tubulin polymerization. Suppresses TLR2/4/5-induced inflammatory response in human monocytes. Inhibits cell proliferation and induces cell cycle arrest in MDA-MB-231 breast cancer cells. Also decreases embryo to blastocyst development.

Physical and Chemical Properties:

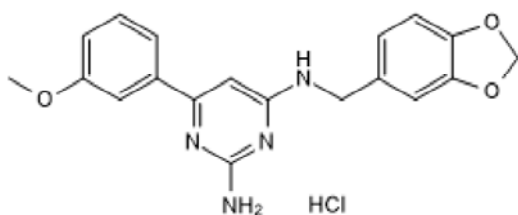
Batch Molecular Formula: C₁₉H₁₈N₄O₃.HCl

Batch Molecular Weight: 386.84

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Fukuda et al (2016) Tubulin is a molecular target of the Wnt-activating chemical probe. *BMC Biochem.* **17** 9. PMID: 27207629.

Wang et al (2016) 2-Amino-4-(3,4-(methylenedioxy)benzylamino)-6-(3-methoxyphenyl)pyrimidine is an anti-inflammatory TLR-2, -4 and -5 response mediator in human monocytes. *Inflamm.Res.* **65** 61. PMID: 26613980.

Denicol et al (2013) Canonical WNT signaling regulates development of bovine embryos to the blastocyst stage. *Sci.Rep.* **3** 1266. PMID: 23405280.

Liu et al (2005) A small-molecule agonist of the Wnt signaling pathway. *Angew.Chem.Int.Ed.Engl.* **44** 1987. PMID: 15724259.

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