

Product Name: ASP 3026

Catalog No.: 5310

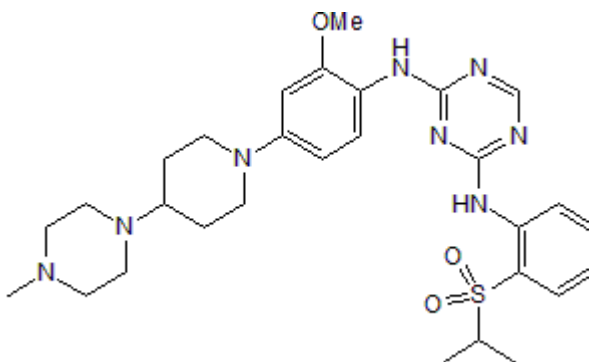
Batch No.: 1

CAS Number: 1097917-15-1

IUPAC Name: *N*²-[2-Methoxy-4-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]phenyl]-*N*⁴-[2-[(1-methylethyl)sulfonyl]phenyl]-1,3,5-triazine-2,4-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₄₀N₈O₃S·¼H₂O
Batch Molecular Weight: 585.24
Physical Appearance: White solid
Solubility: DMSO to 20 mM
 ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.52	6.97	19.15
Found	59.35	6.99	19.05

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

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Description:

Potent anaplastic lymphoma kinase (ALK) inhibitor (IC₅₀ = 3.5 nM). Also inhibits Ack and ROS1 activity (IC₅₀ values are 5.8 and 8.9 nM respectively). Attenuates proliferation, and induces apoptosis of NPM-ALK⁺ T cell anaplastic large-cell lymphoma (ALCL) cells in vitro. Suppresses tumor growth of NPM-ALK⁺ ALCL cell xenografts in mice. Causes tumor shrinkage in hEML4-ALK transgenic mice. Orally available.

Physical and Chemical Properties:

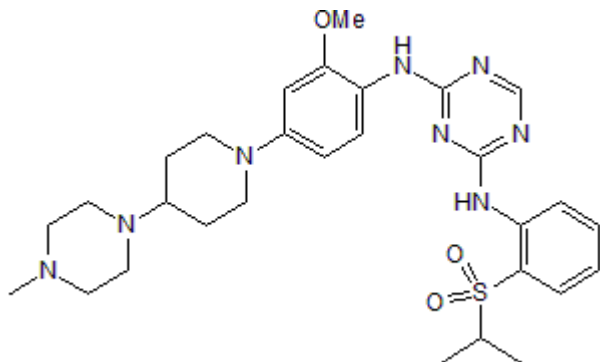
Batch Molecular Formula: C₂₉H₄₀N₈O₃S.¼H₂O

Batch Molecular Weight: 585.24

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

George et al (2014) The ALK inhibitor ASP3026 eradicates NPM-ALK⁺ T-cell anaplastic large-cell lymphoma in vitro and in a systemic xenograft lymphoma model. *Oncotarget* **5** 5750. PMID: 25026277.

Awad and Shaw (2014) ALK Inhibitors in Non-Small Cell Lung Cancer: Crizotinib and Beyond. *Clin.Adv.Hematol.Oncol.* **12** 429. PMID: 25322323.

Mori et al (2014) The selective anaplastic lymphoma receptor tyrosine kinase inhibitor ASP3026 induces tumor regression and prolongs survival in non-small cell lung cancer model mice. *Mol.Cancer Ther.* **13** 329. PMID: 24419060.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 5 mM with gentle warming

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.

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