

Product Name: AS 1517499

Catalog No.: 7636

Batch No.: 1

CAS Number: 919486-40-1

IUPAC Name: 2-[[2-(3-Chloro-4-hydroxyphenyl)ethyl]amino]-4-[(phenylmethyl)amino]-5-pyrimidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₀ClN₅O₂·¼H₂O

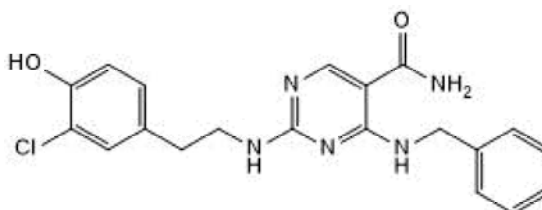
Batch Molecular Weight: 402.36

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.7	5.14	17.41
Found	59.79	5.1	17.36

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

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Description:

AS 1517499 is a potent STAT6 inhibitor (IC₅₀ = 21 nM). In vitro, it inhibits IL-4-induced Th2 differentiation of mouse spleen T cells (IC₅₀ = 2.3 nM), without influencing Th1 differentiation induced by IL-12. In a mouse model of allergic bronchial asthma, treatment with AS 1517499 reduces mouse airway IL-3 production and partly inhibits the RhoA upregulation in bronchial smooth muscles.

Physical and Chemical Properties:

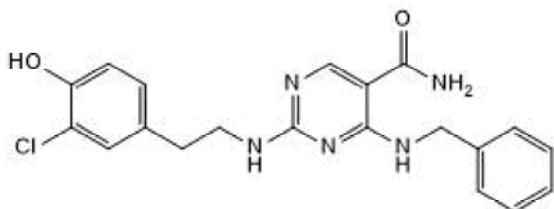
Batch Molecular Formula: C₂₀H₂₀ClN₅O₂·¼H₂O

Batch Molecular Weight: 402.36

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Chiba et al (2009) A novel STAT6 inhibitor AS1517499 ameliorates antigen-induced bronchial hypercontractility in mice. *Am.J.Respir.Cell Mol.Biol.* **41** 516. PMID: 19202006.

Nagashima et al (2008) Identification of 4-benzylamino-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide derivatives as potent and orally bioavailable STAT6 inhibitors. *Bioorg.Med.Chem.* **16** 6509. PMID: 18534856.

Nagashima et al (2007) Synthesis and evaluation of 2-[[2-(4-hydroxyphenyl)-ethyl]amino]pyrimidine-5-carboxamide derivatives as novel STAT6 inhibitors. *Bioorg.Med.Chem.* **15** 1044. PMID: 17071093.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 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.

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