

Product Name: BAY 60-6583

Catalog No.: 4472

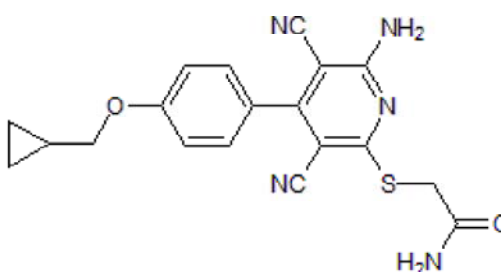
Batch No.: 5

CAS Number: 910487-58-0

IUPAC Name: 2-[[[6-Amino-3,5-dicyano-4-[4-(cyclopropylmethoxy)phenyl]-2-pyridinyl]thio]-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇N₅O₂S
Batch Molecular Weight: 379.44
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.14	4.52	18.46
Found	60.45	4.39	18.38

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

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Description:

Potent adenosine A_{2B} receptor agonist (EC₅₀ = 2.83 nM for murine A_{2B} receptor). Displays selectivity for A_{2B} over A₁, A_{2A} and A₃ receptors. Decreases fMLP-induced superoxide production in neutrophils at low concentrations (1-10 nM). Cardioprotective; attenuates infarct size in a mouse model of myocardial ischemia. Exhibits ERK1/2-biased agonism.

Physical and Chemical Properties:

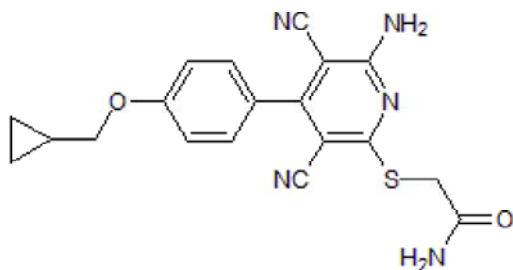
Batch Molecular Formula: C₁₉H₁₇N₅O₂S

Batch Molecular Weight: 379.44

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°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:

Gao et al (2014) Probing biased/partial agonism at the G protein-coupled A_{2B} adenosine receptor. *Biochem. Pharmacol.* **90** 297. PMID: 24853985.

van der Hoeven et al (2011) A role for the low-affinity A_{2B} adenosine receptor in regulating superoxide generation by murine neutrophils. *J.Pharmacol.Exp.Ther.* **338** 1004. PMID: 21693629.

Auchampach et al (2009) Characterization of the A_{2B} adenosine receptor from mouse, rabbit, and dog. *J.Pharmacol.Exp.Ther.* **329** 2. PMID: 19141710.

Eckle et al (2007) Cardioprotection by ecto-5'-nucleotidase (CD73) and A_{2B} adenosine receptors. *Circulation* **115** 1581. PMID: 17353435.

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