

Product Name: Zaprinast

CAS Number: 37762-06-4

IUPAC Name: 2-(2-Propyloxyphenyl)-8-azapurin-6-one

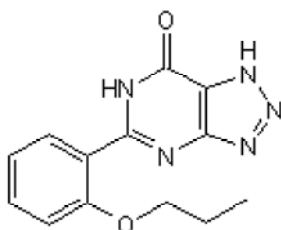
Catalog No.: 0947

Batch No.: 12

EC Number: 253-655-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₃N₅O₂
Batch Molecular Weight: 271.28
Physical Appearance: Pink solid
Solubility: DMSO to 100 mM
Storage: Store at RT
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	57.56	4.83	25.82
Found	57.04	4.84	25.87

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

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Description:

Zaprinast is a phosphodiesterase inhibitor, selective for PDE6, 5, 11 and 9 (IC₅₀ values are 0.15, 0.76, 12.0 and 29.0 μM respectively). Putative GPR35 agonist.

Physical and Chemical Properties:

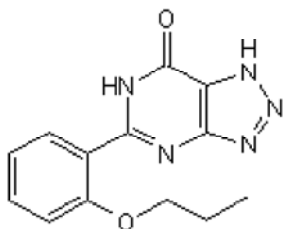
Batch Molecular Formula: C₁₃H₁₃N₅O₂

Batch Molecular Weight: 271.28

Physical Appearance: Pink solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

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:

Lugnier (2006) Cyclic nucleotide phosphodiesterase (PDE) superfamily: a new target for the development of specific therapeutic agents. *Pharmacol.Ther.* **109** 366. PMID: 16102838.

Taniguchi et al (2006) Zaprinast, a well-known cyclic guanosine monophosphate-specific phosphodiesterase inhibitor, is an agonist for GPR35. *FEBS Lett.* **580** 5003. PMID: 16934253.

Soderling et al (1998) Identification and characterization of a novel family of cyclic nucleotide phosphodiesterases. *J.Biol.Chem.* **273** 15553. PMID: 9624145.

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