

Product Name: NBMPR

CAS Number: 38048-32-7

IUPAC Name: 6-S-[(4-Nitrophenyl)methyl]-6-thioinosine

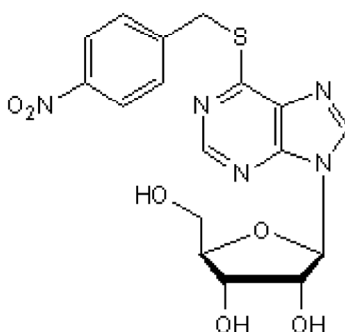
Catalog No.: 2924

Batch No.: 7

EC Number: 253-753-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇N₅O₆S.
Batch Molecular Weight: 419.41
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.68	4.09	16.7
Found	49.43	4.09	17.05

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

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Description:

NBMPR is an equilibrative nucleoside transporter 1 (ENT1) inhibitor (K_i values are 0.4 and 2800 nM for hENT1 and hENT2 respectively).

Physical and Chemical Properties:

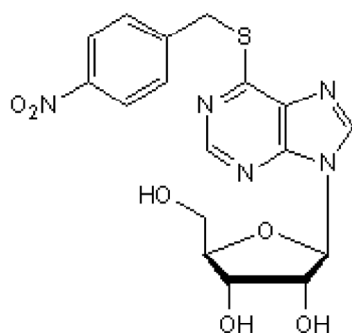
Batch Molecular Formula: $C_{17}H_{17}N_5O_6S$.

Batch Molecular Weight: 419.41

Physical Appearance: Off-white solid

Minimum Purity: $\geq 99\%$

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Lin and Buolamwini (2007) Synthesis and flow cytometric evaluation, and identification of highly potent dipyrid. analogues as equilibrative nucleoside transporter 1 inhibitors. *J.Med.Chem.* **50** 3906. PMID: 17636949.

Tsujie et al (2007) Human equilibrative nucleoside transporter 1, as a predictor of 5-fluorouracil resistance in human pancreatic cancer. *Anticancer Res.* **27** 2241. PMID: 17695509.

Ward et al (2000) Kinetic and pharmacological properties of cloned human equilibrative nucleoside transporters, ENT1 and ENT2, stably expressed in nucleoside transporter-deficient PK15 cells. *J.Biol.Chem.* **275** 8375. PMID: 10722669.

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