

Certificate of Analysis

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Product Name: TG 100713

Catalog No.: 4264

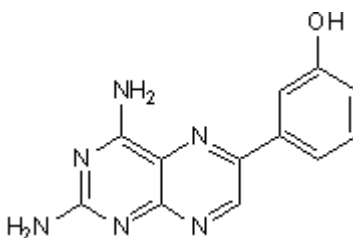
Batch No.: 1

CAS Number: 925705-73-3

IUPAC Name: 3-(2,4-Diamino-6-pteridinyI)-phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₀N₆O
Batch Molecular Weight: 254.25
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

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

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

Product Information

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Catalog No.: 4264

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CAS Number: 925705-73-3

IUPAC Name: 3-(2,4-Diamino-6-pteridinyI)-phenol

Description:

Inhibitor of PI3-kinase (IC₅₀ values are 24, 50, 165 and 215 nM for PI3Kδ, γ, α and β isoforms respectively). Inhibits endothelial cell proliferation.

Physical and Chemical Properties:

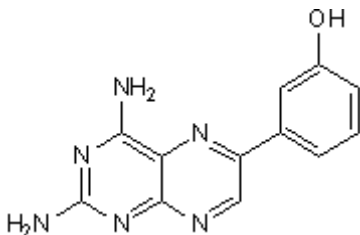
Batch Molecular Formula: C₁₂H₁₀N₆O

Batch Molecular Weight: 254.25

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO 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.

References:

Doukas et al (2006) Phosphoinositide 3-kinase γ/δ inhibition limits infarct size after myocardial ischemia/reperfusion injury. *Proc.Natl.Acad.Sci.USA* **103** 19866. PMID: 17172449.

Palanki et al (2007) Discovery of 3,3'-(2,4-diaminopteridine-6,7-diyl)diphenol as an isozyme-selective inhibitor of PI3K for the treatment of ischemia reperfusion injury associated with myocardial infarction. *J.Med.Chem.* **50** 4279. PMID: 17685602.

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