

Certificate of Analysis

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Product Name: ARN 272

Catalog No.: 4574

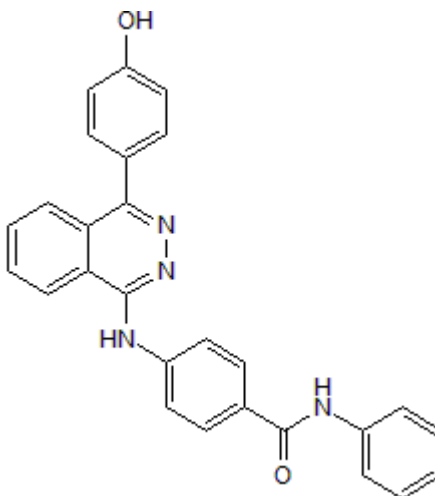
Batch No.: 1

CAS Number: 488793-85-7

IUPAC Name: 4-[[4-(4-Hydroxyphenyl)-1-phthalazinyl]amino]-*N*-phenylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₀N₄O₂·H₂O
Batch Molecular Weight: 450.49
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform:Methanol [9:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	71.99	4.92	12.44
Found	72.38	4.9	12.7

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

Product Information

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Description:

FAAH-like anandamide transporter (FLAT) inhibitor (IC_{50} = 1.8 μ M); cytosolic variant of FAAH-1 that binds anandamide. Attenuates anandamide internalization and deactivation in vitro and in vivo respectively. Exhibits analgesic effects in rodent models of CB₁-mediated nociceptive and inflammatory pain.

Physical and Chemical Properties:

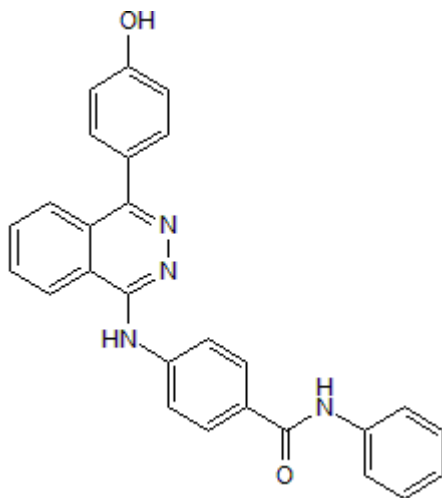
Batch Molecular Formula: C₂₇H₂₀N₄O₂·H₂O

Batch Molecular Weight: 450.49

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage:

Store at RT
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Fu et al (2011) A catalytically silent FAAH-1 variant drives anandamide transport in neurons. *Nat.Neurosci.* **15** 64. PMID: 22101642.

Piscitelli and Marzo (2012) "Redundancy" of endocannabinoid inactivation: new challenges and opportunities for pain control. *ACS Chem.Neurosci.* **3** 356. PMID: 22860203.

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