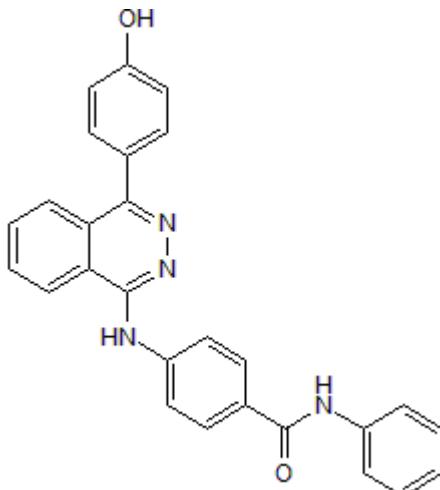


Certificate of Analysiswww.tocris.com**Product Name:** ARN 272**Catalog No.:** 4574**Batch No.:** 1

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

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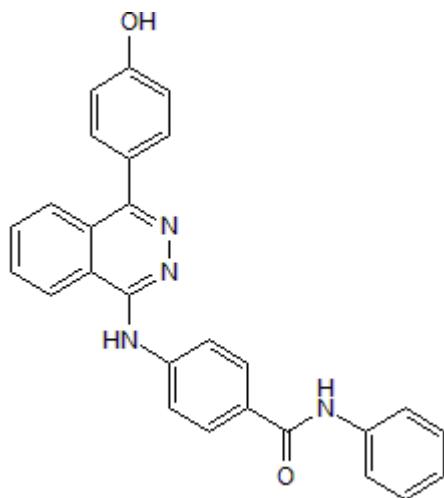
Description:

FAAH-like anandamide transporter (FLAT) inhibitor ($IC_{50} = 1.8 \mu M$); 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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