

Certificate of Analysis

Product Name: XAP 044

Catalog No.: 5248

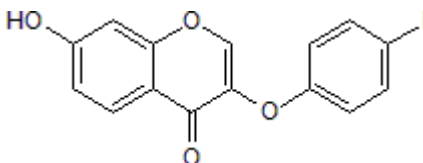
Batch No.: 1

CAS Number: 196928-50-4

IUPAC Name: 7-Hydroxy-3-(4-iodophenoxy)-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₉IO₄
Batch Molecular Weight: 380.13
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 47.39 | 2.39 | |
| Found | 47.31 | 2.33 | |

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

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IUPAC Name: 7-Hydroxy-3-(4-iodophenoxy)-4H-1-benzopyran-4-one

Description:

Potent and selective mGlu₇ antagonist (IC₅₀ = 88 nM); inhibits lateral amygdala long term potentiation (LTP) in brain slices from wild type mice. Displays no effects on the LTP of mGlu₇ deficient mice. Exhibits novel activity by binding to the mGlu₇ Venus flytrap domain (VFTD). Exhibits anti-anxiety effects in rodent models. Brain penetrant.

Physical and Chemical Properties:

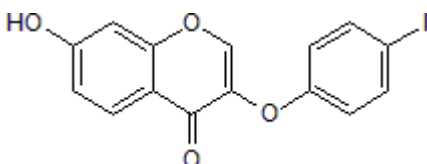
Batch Molecular Formula: C₁₅H₉IO₄

Batch Molecular Weight: 380.13

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

Gee et al (2014) Blocking metabotropic glutamate receptor subtype 7 (mGlu₇) via the Venus flytrap domain (VFTD) inhibits amygdala plasticity, stress, and anxiety-related behavior. *J.Biol.Chem.* **289** 10975. PMID: 24596089.

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