

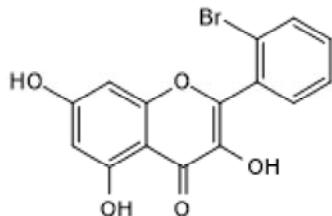
Certificate of Analysis

www.tocris.com**Product Name:** AM 12**Catalog No.:** 6495**Batch No.:** 1

CAS Number: 2387510-84-9

IUPAC Name: 2-(2-Bromophenyl)-3,5,7-trihydroxy-4H-chromen-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₉BrO₅**Batch Molecular Weight:** 349.14**Physical Appearance:** Yellow solid**Solubility:** DMSO to 100 mM
ethanol to 50 mM**Storage:** Store at -20°C**Batch Molecular Structure:**

2. ANALYTICAL DATA

TLC: R_f = 0.7 (Acetone:Petroleum ether [4:6])**HPLC:** Shows 97.2% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 51.6 2.6

Found 51.64 2.57

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

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Product Information

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CAS Number: 2387510-84-9

IUPAC Name: 2-(2-Bromophenyl)-3,5,7-trihydroxy-4H-chromen-4-one

Description:

AM 12 is a TRPC5 inhibitor ($IC_{50} = 0.28 \mu M$); Galangin (Cat. No. 6494) derivative. Exhibits some selectivity for TRPC5 over TRPC2, 3 and 4. Inhibits effects of TRPC5 activator (-)-Englerin A, but potentiates effects of physiological activators Sphingosine-1-phosphate (Cat. No. 1370) and LPC.

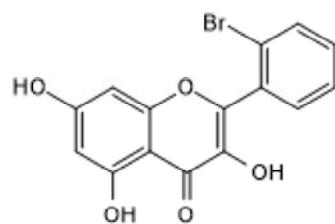
Storage: Store at -20°C

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

Physical and Chemical Properties:Batch Molecular Formula: $C_{15}H_9BrO_5$

Batch Molecular Weight: 349.14

Physical Appearance: Yellow solid

Minimum Purity: ≥97%**Batch Molecular Structure:****Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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:

Naylor *et al* (2016) Natural and synthetic flavonoid modulation of TRPC5 channels. *Br.J.Pharmacol.* **173** 562. PMID: 26565375.

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