

Product Name: AM 12

Catalog No.: 6495

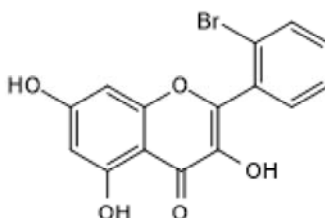
Batch No.: 1

CAS Number: 2387510-84-9

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

Product Name: AM 12

Catalog No.: 6495

1

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 (IC₅₀ = 0.28 μM); 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.

Physical and Chemical Properties:

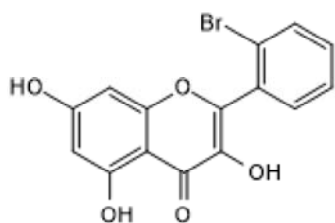
Batch Molecular Formula: C₁₅H₉BrO₅

Batch Molecular Weight: 349.14

Physical Appearance: Yellow solid

Minimum Purity: ≥97%

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 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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956