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Certificate of Analysis

Print Date: Dec 22nd 2016

www.tocris.com

Product Name: 7,8-Dihydroxyflavone

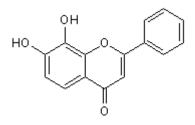
CAS Number:38183-03-8IUPAC Name:7,8-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one

Catalog No.: 3826 Batch No.: 2 EC Number: 253-812-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{15}H_{10}O_4.H_2O$ 272.26 Yellow solid DMSO to 100 mM ethanol to 25 mM 2eq. NaOH to 100 mM Store at +4°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.4% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 66.18 4.44 Found 66.39 4.4

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

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Batch No.: 2

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Product Name: 7,8-Dihydroxyflavone

CAS Number:38183-03-8IUPAC Name:7,8-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one

Description:

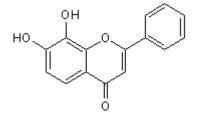
Tyrosine kinase receptor B (TrkB) agonist that binds to the extracellular domain of the receptor ($K_d = 320$ nM). Inhibits glutamate-triggered apoptosis in hippocampal neurons in vitro and in vivo. Exhibits neuroprotective effects in an HD mouse model.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₀O₄.H₂O Batch Molecular Weight: 272.26 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

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

Catalog No.: 3826

EC Number: 253-812-4

Solubility & Usage Info:

DMSO to 100 mM ethanol to 25 mM 2eq. NaOH to 100 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:

Jiang et al (2013) Small-molecule TrkB receptor agonists improve motor function and extend survival in a mouse model of Huntington's disease. Hum.Mol.Genet. 22 2462. PMID: 23446639.

Andero et al (2012) 7,8-dihydroxyflavone, a TrkB receptor agonist, blocks long-term spatial memory impairment caused by immobilization stress in rats. Hippocampus 22 399. PMID: 21136519.

Jang et al (2010) A selective TrkB agonist with potent neurotrophic activities by 7,8-dihydroxyflavone. Proc.Natl.Acad.Sci.USA 107 268.

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