

Certificate Of Analysis

Quality Control Testing and Research Application

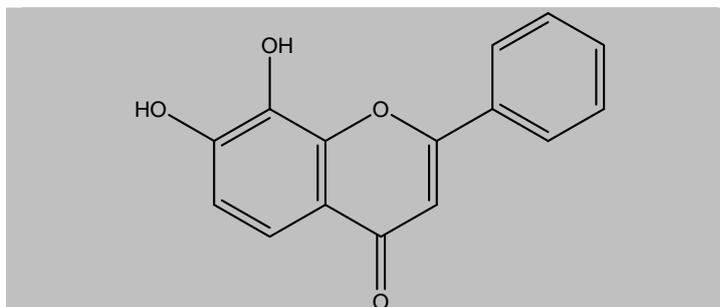
COA Preparation Date: 15/02/2012

COA Revision Date: 15/02/2015

Product: 7,8-Dihydroxyflavone
Cat. No: BS0294
Batch No: 0294BS/01
Chemical Name: 7,8-Dihydroxy-2-phenyl-4H-chromen-4-on

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₀O₄
Batch Molecular Weight: 254.24
CAS No: [38183-03-8]
Physical Appearance: Pale yellow solid
Melting Point: 247.2 - 249° C
Solubility: Soluble to 100 mM in DMSO or to 25 mM in ethanol
Storage: Desiccate at +4° C
Batch Molecular Structure:



Product Description: Tyrosine kinase receptor B (TrkB) agonist ($K_D = 0.32 \mu\text{M}$). It inhibits glutamate-triggered apoptosis in hippocampal neurons *in vitro* and *in vivo*. It blocks long-term spatial memory impairment caused by immobilization stress in rats. It reverses memory deficits and BACE1 elevation in a mouse model of Alzheimer's Disease (AD).

References: 1. Jang et al. (2010) Proc Natl Acad Sci USA 107:2687; 2. Andero et al. (2010) Hippocampus. 2010 Dec 6. [Epub ahead of print]; 3. Devi and Ohno (2011) Neuropsychopharmacology 37:434

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BS0294 7,8-Dihydroxyflavone

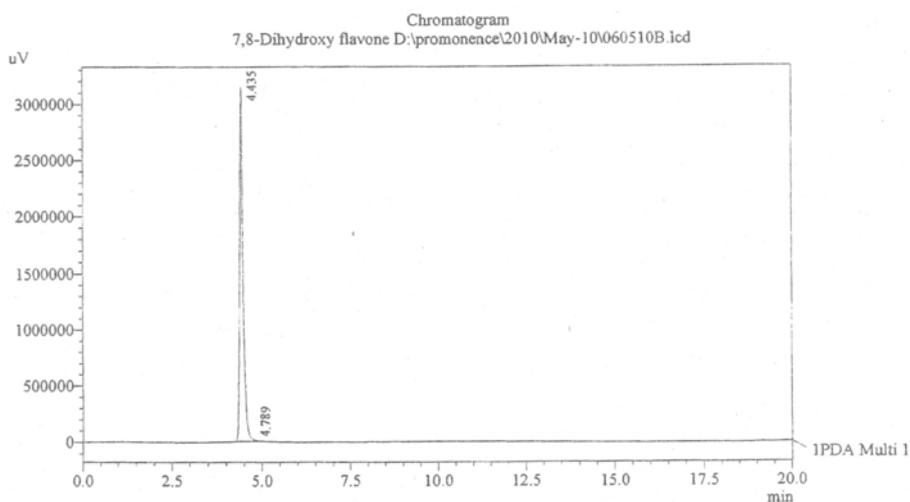
2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: 99.4% (complies).

Description:
Column : Inertsil C-18, 250X4.6mm 5.0µm
Flow : 1.000mL/min.
Mobile Phase : A(50% 0.05% Water TFA) : B(50% ACN)



1 PDA Multi 1 / 240nm 4nm

PeakTable

PDA Ch1 240nm 4nm

Peak#	Ret. Time	Area	Height	Area %
1	4.435	19596916	3143620	99.446
2	4.789	109100	13695	0.554
Total		19706016	3157315	100.000

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