Print Date: Mar 23rd 2022

Certificate of Analysis

www.tocris.com

Product Name: **Myricetin** **Catalog No.: 6189** **Batch No.: 1**

CAS Number: 529-44-2

IUPAC Name: 3,5,7-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{10}O_8.H_2O$

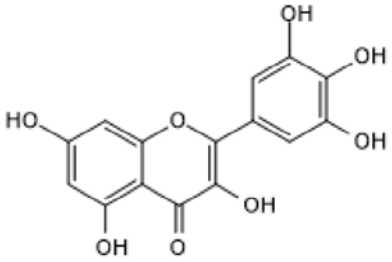
Batch Molecular Weight: 336.26

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.58	3.6	
Found	53.6	3.57	

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Description:

Myricetin is an irreversible TrxR inhibitor (IC_{50} = 0.62 µM). Exhibits concentration-, time- and NADH-dependent TrxR inhibition. Results in the oxidation of Trx and reduced TrxR activity in vitro in addition to the accumulation of cells in sub-G_1 phase. Reduces neoplastic transformation and induces cell death in cancer cell lines. Chemotherapeutic. Myricetin binds to the CAG motif of the mutant RNA from the HTT gene in Huntington's disease (HD). It prevents the translation of mutant huntingtin protein as well as sequestration of MBNL1. Myricetin alleviates proteotoxicity of expanded polyglutamine proteins in Cos-7 cells. Myricetin a... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

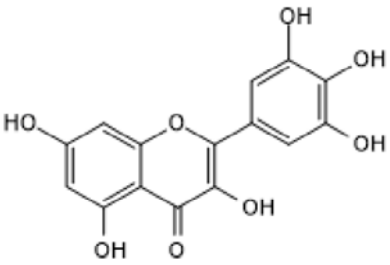
Batch Molecular Formula: $C_{15}H_{10}O_8.H_2O$

Batch Molecular Weight: 336.26

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:

Khan *et al* (2018) Myricetin reduces toxic level of CAG repeats RNA in Huntington's Disease (HD) and Spino Cerebellar Ataxia (SCAs). ACS Chem.Biol. ***13*** 180. PMID: 29172480.

Devi *et al* (2015) Molecular mechanisms underlying anticancer effects of myricetin. Life.Sci. ***142*** 19. PMID: 26455550.

Lu & Holmgren *et al* (2009) Selenoproteins. J.Biol.Chem. ***284*** 723. PMID: 18757362 .

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