

Certificate of Analysis

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Product Name: Ononetin

Catalog No.: 5143

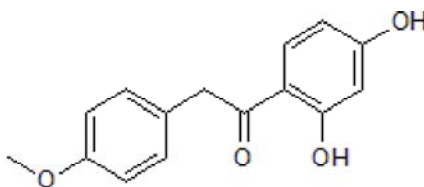
Batch No.: 3

CAS Number: 487-49-0

IUPAC Name: 1-(2,4-Dihydroxyphenyl)-2-(4-methoxyphenyl)ethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₄O₄
Batch Molecular Weight: 258.27
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.76	5.46	0
Found	69.45	5.45	0.05

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

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CAS Number: 487-49-0

IUPAC Name: 1-(2,4-Dihydroxyphenyl)-2-(4-methoxyphenyl)ethanone

Description:

Ononetin is a naturally occurring deoxybenzoin. TRPM3 channel blocker (IC₅₀ = 300 nM). Inhibits pregnenolone sulfate-induced intracellular Ca²⁺ accumulation in HEK_{mTRPM3} cells and dorsal root ganglia (DRG) neurons in vitro.

Physical and Chemical Properties:

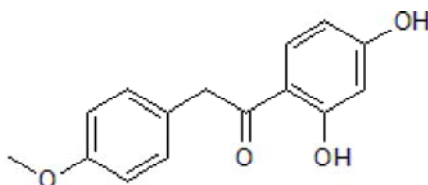
Batch Molecular Formula: C₁₅H₁₄O₄

Batch Molecular Weight: 258.27

Physical Appearance: Off White 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.

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Straub *et al* (2012) Citrus fruit and fabacea secondary metabolites potently and selectively block TRPM3. *Br.J.Pharmacol.* **168** 1835. PMID: 23190005.

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