

**Product Name:** Ononetin

**Catalog No.:** 5143

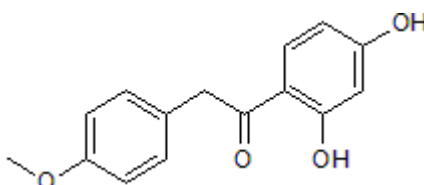
**Batch No.:** 1

**CAS Number:** 487-49-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>14</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 258.27  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.76	5.46	
Found	69.56	5.48	

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

**Product Name:** Ononetin

**Catalog No.:** 5143

**Batch No.:** 1

**CAS Number:** 487-49-0

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

**Description:**

Naturally occurring deoxybenzoin. TRPM3 channel blocker (IC<sub>50</sub> = 300 nM). Inhibits pregnenolone sulfate-induced intracellular Ca<sup>2+</sup> accumulation in HEK<sub>mTRPM3</sub> cells and dorsal root ganglia (DRG) neurons in vitro.

**Physical and Chemical Properties:**

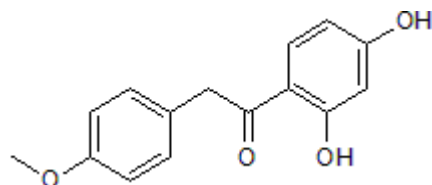
Batch Molecular Formula: C<sub>15</sub>H<sub>14</sub>O<sub>4</sub>

Batch Molecular Weight: 258.27

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

**R&D**  
SYSTEMS®