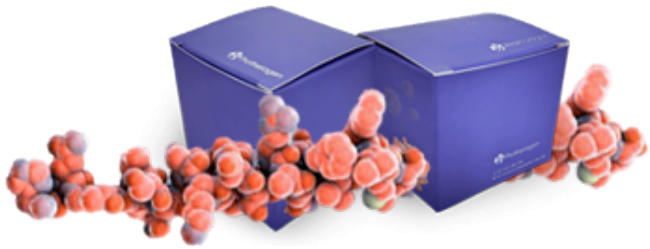
Protheragen Obesity



Diosmetin

Cat. No.:	OB0225WX-2063
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, HPLC, and LC-MS.
Size:	25 mg; 50 mg; 100 mg; 1 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Diosmetin is a natural flavonoid derivative that has been identified to function as a weak agonist of the TrkB receptor.
Synonym	Luteolin 4-methyl ether; 520-34-3; 5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4 H-chromen-4-one; Luteolin 4'-methyl ether; 4'-Methylluteolin; Salinigricoflavono l; Diosmetine; Pillon; 3',5,7-trihydroxy-4'-methoxyflavone; 5,7,3'-Trihydroxy-4' -methoxyflavone; 5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)chromen-4-one; MFCD00017425; 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-; 5, 7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4-benzopyrone; 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one; Flavone, 3',5,7-trihydroxy-4'-methox y-; Luteolin 4-methyl ether; SR-05000002196; 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one (Diosmetin); 3',5,7-trihydroxy-4'-methoxy flavone ; 2-(4-methoxy-3-oxidanyl-phenyl)-5,7-bis(oxidanyl)chromen-4-one; 5,7-dihydroxy- 2-(3-hydroxy-4-methoxyphenyl)-1-benzopyran-4-one; J8D
CAS No.	520-34-3
Compound CID	5281612
Formula	$C_{16}H_{12}O_6$
Formula Weight	300.26

Specification

Targets&IC50	CYP1A enzyme(human; HepG2 cells): 40 μM

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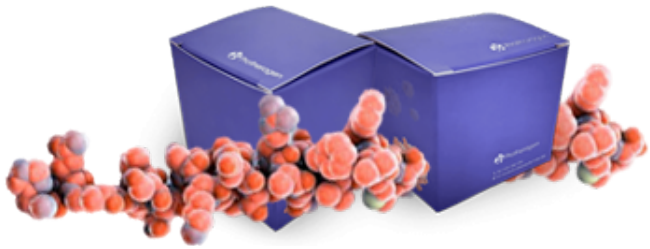

Relative Density	1.517 g/cm^3 at 20°C.
IUPAC Name	5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)chromen-4-one
InChI	InChI=1S/C16H12O6/c1-21-13-3-2-8(4-10(13)18)14-7-12(20)16-11(19)5-9(17)6-15(16)22-14/h2-7,17-19H,1H3
InChI Key	MBNGWHIJMBWFHU-UHFFFAOYSA-N
SMILES string	COC1=C(C=C(C=C1)C2=CC(=O)C3=C(C=C(C=C3O2)O)O)O
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Diosmetin is utilized in phytochemical research as a bioactive flavonoid to stud y its anti-inflammatory and antioxidant activities, as well as its ability to in hibit specific metabolic enzymes.

Library Information

Target	P450; Trk receptor
Receptor	CYP1A1; Cytochrome P450; TrkB
Pathways	Tyrosine kinase/adaptors; Metabolism
Plate Number	AOCL-27
Plate Location	d6
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	18.33 mg/mL; 61.06 mM
Water Max Solubility	<1 mg/mL (insoluble or slightly soluble)
Ethanol Max Solubility	<1 mg/mL (insoluble or slightly soluble)
ALogP	2.394
HBA_Count	3
HBD_Count	3
Rotatable Bond	2

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