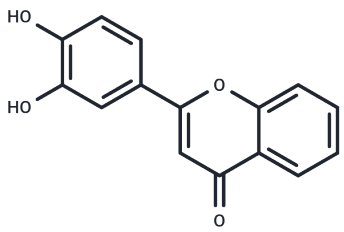
Data Sheet (Cat.No.T8245)

TargetMol
YOUR TARGET MOLECULES

3,4-Dihydroxyflavone

Chemical Properties



CAS No. : 4143-64-0

Formula: C15H10O4

Molecular Weight: 254.24

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	3,4-Dihydroxyflavone Acts as an Antioxidant and Antiapoptotic Agent .
Targets(IC50)	Others
In vitro	Treatment with 3,4-DHF increased the ICM cell number and reduced intracellular ROS production and apoptotic cell numbers.?When O(2) tension was decreased from 20% (high tension) to 5% (low tension), embryo development rates were doubled regardless of 3,4-DHF treatment[1].
Cell Research	Blastocyst development, total cell and inner cell mass (ICM) numbers, intracellular levels of reactive oxygen species (ROS), apoptotic indices and gene expression levels were examined before and after treatment of day 2 bovine embryos (≥2-4 cells) with various concentrations of 3,4-DHF or SOD for 6 days[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (78.67 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9333 mL	19.6665 mL	39.3329 mL
5 mM	0.7867 mL	3.9333 mL	7.8666 mL
10 mM	0.3933 mL	1.9666 mL	3.9333 mL
50 mM	0.0787 mL	0.3933 mL	0.7867 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lee K S , Kim E Y , Jeon K , et al. 3,4-Dihydroxyflavone Acts as an Antioxidant and Antiapoptotic Agent to Support Bovine Embryo Development In Vitro[J]. Journal of Reproduction & Development, 2011, 57(1):127-134.
Hossain