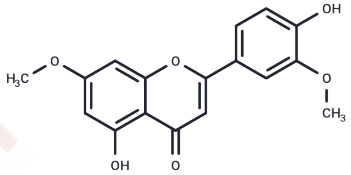
Data Sheet (Cat.No.T3816)

TargetMol

Velutin

Chemical Properties



CAS No. : 25739-41-7

Formula: C17H14O6

Molecular Weight: 314.29

Appearance: no data available

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

Biological Description

Description	Velutin shows the strongest inhibitory effect in NF-κB activation and exhibits the greatest effects in blocking the degradation of inhibitor of NF-κB as well as in inhibiting mitogen-activated protein kinase p38 and JNK phosphorylation. Velutin has anti-inflammatory property. Velutin exhibits the greatest potency among all flavones which reduce TNF-α and IL-6 production.
Targets(IC50)	NF-κB,HIF/HIF Prolyl-Hydroxylase

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1818 mL	15.9089 mL	31.8177 mL
5 mM	0.6364 mL	3.1818 mL	6.3635 mL
10 mM	0.3182 mL	1.5909 mL	3.1818 mL
50 mM	0.0636 mL	0.3182 mL	0.6364 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

Xie C, et al. The açaí flavonoid velutin is a potent anti-inflammatory agent: blockade of LPS-mediated TNF-α and IL-6 production through inhibiting NF-κB activation and MAPK pathway. J Nutr Biochem. 2012 Sep;23(9):1184-91.

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