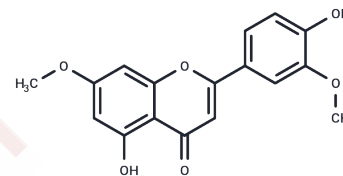


## Velutin

## Chemical Properties

CAS No. :	25739-41-7
Formula:	C <sub>17</sub> H <sub>14</sub> O <sub>6</sub>
Molecular Weight:	314.29
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## 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)
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## 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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