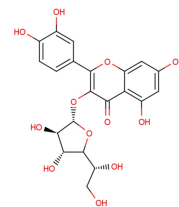


## ISOQUERCITRIN

## Chemical Properties

CAS No.:	21637-25-2
Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>12</sub>
Molecular Weight:	464.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Isoquercitrin is an effective antioxidant and an eosinophilic inflammation suppressor.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Isoquercitrin occurs widely in plants. 10 $\mu$ M of Isoquercitrin of the seven compounds partially but significantly blunt the negative effect of H <sub>2</sub> O <sub>2</sub> on RGC-5 cells, as the viability of cells in the presence of H <sub>2</sub> O <sub>2</sub> is increased from approximately 63% to 83% and 90% at 10 and 50 $\mu$ M, respectively. Indeed, 50 $\mu$ M Isoquercitrin is more effective as a neuroprotectant than the same concentration of EGCG.
In vivo	In animals receiving Isoquercitrin or quercetin, eosinophil counts are lower in the BALF, blood and lung parenchyma. Neutrophil counts in blood and IL-5 levels in lung homogenate are lower only in Isoquercitrin-treated mice. No alterations in mononuclear cell numbers were observed.

## Solubility Information

Solubility	DMSO: 125 mg/mL (269.18 mM)) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.153 mL	10.767 mL	21.534 mL
5 mM	0.431 mL	2.153 mL	4.307 mL
10 mM	0.215 mL	1.077 mL	2.153 mL
50 mM	0.043 mL	0.215 mL	0.431 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

- Hwang Y H, Jang S A, Kim T, et al. Anti-osteoporotic and Anti-adipogenic Effects of Rhus chinensis Nutgalls in Ovariectomized Mice Fed with a High-fat Diet[J]. Planta medica. 2019.
- Shim K S, Hwang Y H, Jang S A, et al. Ethanol Extract of Amomum tsao-ko Ameliorates Ovariectomy-Induced Trabecular Loss and Fat Accumulation[J]. Molecules. 2021, 26(4): 784.

Inhibitors · Natural Compounds · Compound Libraries

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