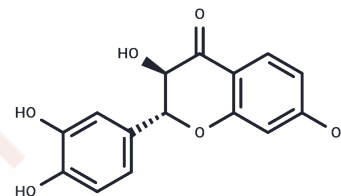


## Fustin

## Chemical Properties

CAS No. :	20725-03-5
Formula:	C <sub>15</sub> H <sub>12</sub> O <sub>6</sub>
Molecular Weight:	288.25
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	Fustin is the phytogetic flavanol component of the plant <i>Rhus verniciflua</i> Stokes. Fustin shows protective effects on 6-hydroxydopamine-induced neuronal cell death.
Targets(IC50)	ERK,Beta Amyloid,AChR,Cholinesterase (ChE)
In vivo	In diabetic male rats, the behavioral parameters with MWM and EPM were significantly restored in fustin(50 mg/kg and 100 mg/kg) treatment groups as compared to elevated levels in the diabetic control group[1].

## Solubility Information

Solubility	Ether: Soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4692 mL	17.3461 mL	34.6921 mL
5 mM	0.6938 mL	3.4692 mL	6.9384 mL
10 mM	0.3469 mL	1.7346 mL	3.4692 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 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

Afzal M, et al. Fustin Inhibits Oxidative Free Radicals and Inflammatory Cytokines in Cerebral Cortex and Hippocampus and Protects Cognitive Impairment in Streptozotocin-Induced Diabetic Rats. ACS Chem Neurosci. 2021 Dec 15;12(24):4587-4597.

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