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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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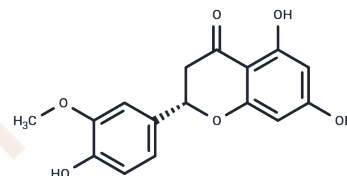
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Homoeriodictyol

Chemical Properties

CAS No. :	446-71-9
Formula:	C ₁₆ H ₁₄ O ₆
Molecular Weight:	302.28
Appearance:	no data available
Storage:	store at low temperature,store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Homoeriodictyol, a naturally occurring, bitter-masking flavanone, as a promising agent to increase appetite and food intake. The flavanone homoeriodictyol can increase SGLT-1-mediated glucose uptake but decrease serotonin release in differentiated Caco-2 cells.
Targets(IC50)	5-HT Receptor,transporter,Sodium Channel,Drug Metabolite
In vitro	In contrast to other polyphenols, the flavanon Homoeriodictyol promotes glucose uptake by $29.0 \pm 3.83\%$ at a concentration of $100 \mu\text{M}$. The glucose uptake stimulating effect was sensitive to phloridzin, but not to phloretin, indicating an involvement of the sodium-coupled glucose transporter SGLT-1, but not of sodium-independent glucose transporters (GLUT). In addition, in contrast to the increased extracellular serotonin levels by stimulation with 500 mM D-(+)-glucose, treatment with $100 \mu\text{M}$ Homoeriodictyol decreased serotonin release by $-48.8 \pm 7.57\%$ in Caco-2 cells via a phloridzin-sensitive signaling pathway. Extracellular serotonin levels were also reduced by $-57.1 \pm 5.43\%$ after application of $0.01 \mu\text{M}$ Homoeriodictyol to human neural SH-SY5Y cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3082 mL	16.541 mL	33.0819 mL
5 mM	0.6616 mL	3.3082 mL	6.6164 mL
10 mM	0.3308 mL	1.6541 mL	3.3082 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 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

The flavanone homoeriodictyol increases SGLT-1-mediated glucose uptake but decreases serotonin release in differentiated Caco-2 cells. PLoS One. 2017 Feb 13;12(2):e0171580.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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