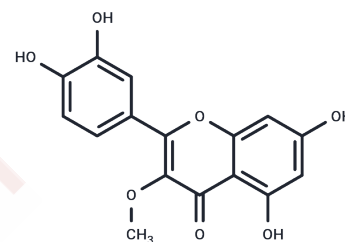


3-O-Methylquercetin

Chemical Properties

CAS No. :	1486-70-0
Formula:	C ₁₆ H ₁₂ O ₇
Molecular Weight:	316.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-O-Methylquercetin is a selective and competitive PDE3/PDE4 inhibitor, and inhibits PDE3 than PDE4 with a low Km value. 3-O-Methylquercetin inhibits total cAMP- and cGMP-phosphodiesterase (PDE) of guinea pig trachealis at low concentrations.
Targets(IC50)	cAMP,NO Synthase,IL Receptor,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.162 mL	15.8098 mL	31.6196 mL
5 mM	0.6324 mL	3.162 mL	6.3239 mL
10 mM	0.3162 mL	1.581 mL	3.162 mL
50 mM	0.0632 mL	0.3162 mL	0.6324 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

Fasolo D, Bassani VL, Teixeira HF. Development of topical nanoemulsions containing quercetin and 3-O-methylquercetin. Pharmazie. 2009 Nov;64(11):726-30.

Wun-Chang Ko, et al. 3-O-methylquercetin More Selectively Inhibits Phosphodiesterase Subtype 3. Planta Med. 2003 Apr;69(4):310-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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