

Kuwanon U

Chemical Properties

CAS No. : 123702-95-4

Formula: C₂₆H₃₀O₆

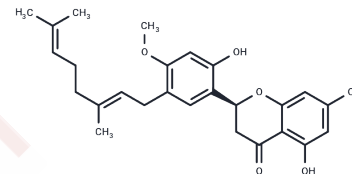
Molecular Weight: 438.51

Storage:

Store at low temperature, Keep away from direct sunlight, Keep away from moisture

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	Kuwanon U (4'-methoxykuwanon E), a compound from <i>Morus alba</i> , is a cholinesterase inhibitor with antimicrobial activity, inhibits acetylcholinesterase (AChE) and butyrylcholinesterase (BChE), and exerts its inhibitory effect by preventing ATP binding in the cytoplasmic domain of SERCA1, which can be used in the study of diabetes mellitus and bacterial infections.
Targets(IC50)	Cholinesterase (ChE)
In vitro	Kuwanon U is a potent cholinesterase inhibitor exhibiting inhibitory activity against acetylcholinesterase and butyrylcholinesterase with IC ₅₀ values of 19.69 μM and 10.11 μM and Ki values of 6.48 μM and 9.59 μM, respectively. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2804 mL	11.4022 mL	22.8045 mL
5 mM	0.4561 mL	2.2804 mL	4.5609 mL
10 mM	0.228 mL	1.1402 mL	2.2804 mL
50 mM	0.0456 mL	0.228 mL	0.4561 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

Kim JY, et al. Isolation of cholinesterase-inhibiting flavonoids from *Morus lhou*. J Agric Food Chem. 2011 May 11;59 (9):4589-96.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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