

Kuwanon H

Chemical Properties

CAS No. : 76472-87-2

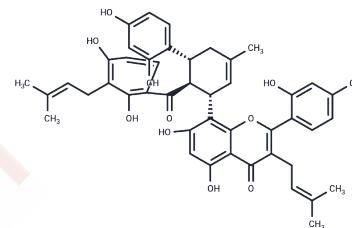
Formula: C45H44O11

Molecular Weight: 760.82

Storage: 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 H is a specific antagonist for the gastrin-releasing peptide (GRP) -preferring receptor with K_i values of 290 nM and can be useful for studying the physiological and pathological role of GRP. Kuwanon H is a potent non-peptide bombesin receptor antagonist.
Targets(IC50)	Bombesin Receptor, GPCR
In vitro	Kuwanon G and H, isolated from the methanol extract of <i>Morus bombycis</i> , inhibited specific binding of [125 I]gastrin-releasing peptide (GRP) to GRP-preferring receptors in murine Swiss 3T3 fibroblasts with K_i values of 470 and 290 nM, respectively. Kuwanon H was one order of magnitude less potent for inhibiting [125 I]bombesin binding to neuromedin B (NMB)-preferring receptors in rat esophagus membranes. This compound antagonized bombesin-induced increases in the cytosolic free calcium concentration and GRP-induced DNA synthesis in Swiss 3T3 cells.

Solubility Information

Solubility	DMSO: 50 mg/mL (65.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3144 mL	6.5719 mL	13.1437 mL
5 mM	0.2629 mL	1.3144 mL	2.6287 mL
10 mM	0.1314 mL	0.6572 mL	1.3144 mL
50 mM	0.0263 mL	0.1314 mL	0.2629 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

Mihara S, et al. Non-peptide bombesin receptor antagonists, kuwanon G and H, isolated from mulberry. *Biochem Biophys Res Commun.* 1995 Aug 15;213(2):594-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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