

Kuwanon H

Chemical Properties

CAS No.:	76472-87-2
Formula:	C ₄₅ H ₄₄ O ₁₁
Molecular Weight:	760.8
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Kuwanon H, and possibly kuwanon G also, are specific antagonists for the gastrin-releasing peptide (GRP) - preferring receptor and can be useful for studying the physiological and pathological role of GRP.
Targets(IC ₅₀)	others: None
In vitro	Kuwanon G and H, isolated from the methanol extract of <i>Morus bombycis</i> , inhibited specific binding of [125I]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 [125I]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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.314 mL	6.572 mL	13.144 mL
5 mM	0.263 mL	1.314 mL	2.629 mL
10 mM	0.131 mL	0.657 mL	1.314 mL
50 mM	0.026 mL	0.131 mL	0.263 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

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