Kuwanon H

Cat. No.: HY-N2600

CAS No.: 76472-87-2

Molecular Formula: $C_{45}H_{44}O_{11}$

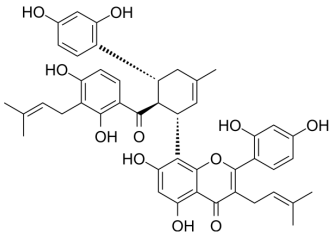
Molecular Weight: 760.82

Target: Bombesin Receptor

Pathway: GPCR/G Protein

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (65.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.29 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Kuwanon H is a flavonoid isolated from Morus alba, which acts as a potent non-peptide bombesin receptor antagonist. Kuwanon H selectively inhibits binding of gastrin releasing peptide CRP to GRP-preferring recepotr, with a K_i value of 290 nM in cells[1].

IC_{50} & Target

Ki: 290 nM (GRP-preferring recepotr)[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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