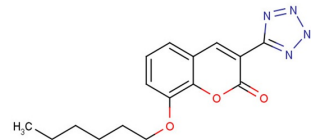


KP136

Chemical Properties

CAS No.:	76239-32-2
Formula:	C ₁₆ H ₁₈ N ₄ O ₃
Molecular Weight:	314.34
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	KP136 is an orally effective antiallergic compound (IC ₅₀ : 76.1 µg/mL for histamine release and 63 ug/mL for degranulation).
Targets(IC ₅₀)	Histamine release: None
In vitro	KP136 (0.01 µg/mL) inhibits this histamine release and degranulation in a dose-dependent manner. This confirms it is an inhibitor of mast cell activation.
In vivo	KP136 (1 mg/kg, i.v.) also remarkably inhibits 5-h homologous PCA, having an activity similar to that of C4C. C4C at 0.2 mg/kg produces an equipotent effect to 1 mg/kg KP136 or 5 mg/kg DSCG. However, C4C is less effective by the oral route because it only produces a maximum inhibition of about 35% even at the high dose of 100 mg/kg, whereas KP136 displays an overt inhibitory effect of about 66% at the oral dose of 2 mg/kg.

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	3.181 mL	15.906 mL	31.813 mL
5 mM	0.636 mL	3.181 mL	6.363 mL
10 mM	0.318 mL	1.591 mL	3.181 mL
50 mM	0.064 mL	0.318 mL	0.636 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. Kuriyama K, et al. Antiallergic effects of 4-[2-oxo-3-(1H-tetrazol-5-yl)-2H-chromen-8-yloxy]-butyric acid. Jpn J Pharmacol. 1989 Jun;50(2):111-8.

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