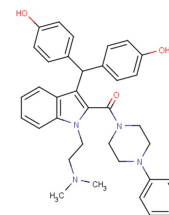


KW-8232 free base

Chemical Properties

CAS No.:	170365-25-0
Formula:	C ₃₆ H ₃₇ ClN ₄ O ₃
Molecular Weight:	609.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	KW-8232 free base can reduce the biosynthesis of PGE ₂ , is an anti-osteoporotic agent.
Targets(IC ₅₀)	Prostaglandin Receptor: None
In vitro	KW-8232 reduces the biosynthesis of PGE ₂ in mouse osteoblastic cells. KW-8232 free base is an anti-osteoporotic agent.
In vivo	KW-8232 markedly decreases urinary calcium excretion in the neurectomized rats only at 30 mg/kg, and highly reduces urinary pyridinoline and deoxypyridinoline excretion which are markers of bone resorption in neurectomized rats. KW-8232 inhibits bone loss may be attributed to the lower prostaglandins (PGs)-stimulated bone resorption via regulation of PGE ₂ production. KW-8232 (3, 10, 30 mg/kg, p.o.) potentially increases the femoral bone mineral density (BMD) of immobilized legs of rats, and affects immobilization-induced abnormal bone turnover.

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	1.642 mL	8.208 mL	16.416 mL
5 mM	0.328 mL	1.642 mL	3.283 mL
10 mM	0.164 mL	0.821 mL	1.642 mL
50 mM	0.033 mL	0.164 mL	0.328 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. Uchii M, et al. Effect of KW-8232, a novel anti-osteoporotic agent, on bone loss in sciatic neurectomized rats. Jpn J Pharmacol. 1998 Oct;78(2):241-3.

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