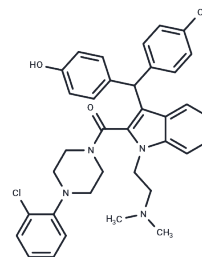


KW-8232 free base

Chemical Properties

CAS No. :	170365-25-0
Formula:	C ₃₆ H ₃₇ ClN ₄ O ₃
Molecular Weight:	609.16
Storage:	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	KW-8232 free base can reduce the biosynthesis of PGE ₂ , is an anti-osteoporotic agent.
Targets(IC ₅₀)	Others, Prostaglandin Receptor, SARS-CoV
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.) potently increases the femoral bone mineral density (BMD) of immobilized legs of rats, and affects immobilization-induced abnormal bone turnover.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6416 mL	8.208 mL	16.416 mL
5 mM	0.3283 mL	1.6416 mL	3.2832 mL
10 mM	0.1642 mL	0.8208 mL	1.6416 mL
50 mM	0.0328 mL	0.1642 mL	0.3283 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

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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