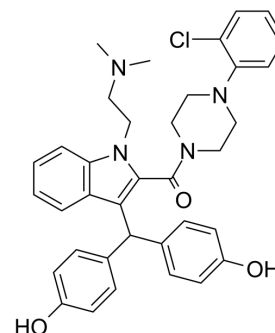


KW-8232 free base

Cat. No.:	HY-100304		
CAS No.:	170365-25-0		
Molecular Formula:	C ₃₆ H ₃₇ ClN ₄ O ₃		
Molecular Weight:	609.16		
Target:	Prostaglandin Receptor; SARS-CoV		
Pathway:	GPCR/G Protein; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	KW-8232 free base, an orally active anti-osteoporotic agent, and can reduce the biosynthesis of PGE ₂ ^[1] .		
IC₅₀ & Target	Prostaglandin Receptor ^[1]		
In Vitro	KW-8232 is an anti-osteoporotic agent. KW-8232 reduces the biosynthesis of PGE ₂ in mouse osteoblastic cells ^[1] . KW-8232 possesses anti-viral activity against SARS-CoV-2 (EC ₅₀ ~1.2 μM) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	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. 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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	male Sprague-Dawley rats (5-week-old) ^[1] .	
	Dosage:	1, 3, 10, and 30 mg/kg.	
	Administration:	Orally once daily beginning 1 day prior to neurectomy for 28 days.	
	Result:	Decreased urinary calcium excretion in the neurectomized rats only at 30 mg/kg.	

REFERENCES

[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.

[2]. Shiwei Wang, et al. A Transferable Deep Learning Approach to Fast Screen Potent Antiviral Drugs against SARS-CoV-2. *bioRxiv.* 2020.

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

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