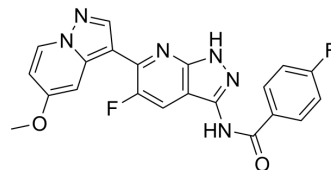


CW 008

Cat. No.:	HY-110218		
CAS No.:	1134613-19-6		
Molecular Formula:	C ₂₁ H ₁₄ F ₂ N ₆ O ₂		
Molecular Weight:	420.37		
Target:	PKA; Epigenetic Reader Domain		
Pathway:	Stem Cell/Wnt; TGF-beta/Smad; Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (39.66 mM); ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3789 mL	11.8943 mL	23.7886 mL
5 mM	0.4758 mL	2.3789 mL	4.7577 mL
10 mM	0.2379 mL	1.1894 mL	2.3789 mL

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

BIOLOGICAL ACTIVITY

Description

CW 008, a derivative of pyrazole-pyridine, is a CREB or PKA pathway agonist. CW 008 also is a stem cell differentiating agent. CW 008 stimulates osteoblast differentiation of human MSCs and increases bone formation in ovariectomized mice. CW008 promotes osteogenesis by activating cAMP/PKA/CREB signaling pathway and inhibiting leptin secretion^{[1][2][3]}.

IC₅₀ & Target

PKA

REFERENCES

[1]. Nooshin AMINI, et al. Methods and compositions for generating human forebrain neural progenitor cells and for maturation thereof to parvalbumin+ interneurons. Patent, WO2023075913A1.

[2]. Patrick Soon-Shiong. Patient treatment via teratogenic pharmaceutical compounds. Patent, WO2016176675A2.

[3]. Kim JM, et al. An activator of the cAMP/PKA/CREB pathway promotes osteogenesis from human mesenchymal stem cells. J Cell Physiol. 2013 Mar;228(3):617-26.

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

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