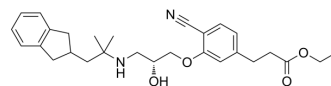


SB-423557

Cat. No.:	HY-15106
CAS No.:	351490-26-1
Molecular Formula:	C ₂₈ H ₃₆ N ₂ O ₄
Molecular Weight:	464.6
Target:	CaSR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SB-423557 is an orally active calcium-sensing receptor (CaR) antagonist (IC ₅₀ =520 nM), precursor of SB-423562 (IC ₅₀ =73 nM). SB-423557 is well tolerated in human and increases plasma concentrations of exogenous parathyroid hormone (PTH) and stimulates bone formation ^[1] .
IC₅₀ & Target	IC ₅₀ : 520 nM (Calcium-sensing receptor) ^[1]
In Vivo	SB-423557 (oral administration; 10, 30 or 100 μM/kg; once daily; 12 weeks) elicits transient increases in plasma concentrations of PTH, resulting in increased bone mass and strength in both vertebrae and long bones compared to that of OVX controls ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kumar S, et al. An orally active calcium-sensing receptor antagonist that transiently increases plasma concentrations of PTH and stimulates bone formation. Bone. 2010 Feb;46(2):534-42.

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

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