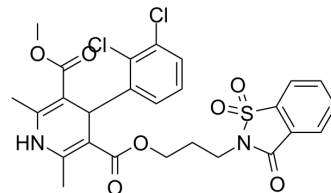


Calcium channel-modulator-1

Cat. No.:	HY-U00135
CAS No.:	136941-70-3
Molecular Formula:	C ₂₆ H ₂₄ Cl ₂ N ₂ O ₇ S
Molecular Weight:	579.45
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Calcium channel-modulator-1 is a calcium channel modulator; blocks aortic contraction with an IC ₅₀ of 0.8 μM.
IC ₅₀ & Target	IC ₅₀ : 0.8 μM (Aortic contraction) ^[1]
In Vivo	<p>Oral administration of Calcium channel-modulator-1 (20 mg/kg) causes a 35-37% decrease in systolic blood pressure in spontaneously hypertensive rats. However, iv administration of Calcium channel-modulator-1 to anesthetized spontaneously hypertensive rats causes a decrease in blood pressure which was more pronounced and long-lasting than that of nifedipine^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Sunkel CE, et al. Synthesis of 3-[(2,3-dihydro-1,1,3-trioxo-1,2-benzisothiazol-2-yl)alkyl] 1,4-dihydropyridine-3,5-dicarboxylate derivatives as calcium channel modulators. J Med Chem. 1992 Jun 26;35(13):2407-14.

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

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