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## Product Data Sheet

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Product Name: Calcium channel-modulator-1

Cat. No.: GC32616

### Chemical Properties

Cas. No. 136941-70-3

SMILES O=C(C1=C(C)NC(C)=C(C(OC)=O)C1C2=CC=CC(CI)=C2CI)OCCCN(C(C3=C4C=CC=C3)=O)S4(=O)=O

Formula  $C_{26}H_{24}Cl_2N_2O_7S$

M.Wt 579.45

Solubility DMSO : 12.5 mg/mL (21.57 mM); ultrasonic and warming and heat to 60°C Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath tips for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice Condition upon request.

Structure

### Background

Calcium channel-modulator-1 is a calcium channel modulator; blocks aortic contraction with an IC50 of 0.8 μM.

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].

[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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA