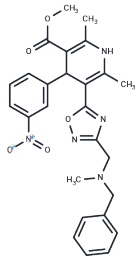
Data Sheet (Cat.No.T16897)

TargetMol

SM-6586

Chemical Properties



CAS No. : 103898-38-0

Formula: C26H27N5O5

Molecular Weight: 489.52

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SM-6586 is a potent calcium channel antagonist with inhibitory effects on Na+/H+ and Na+/Ca2+ exchange channels, and can be used in the study of cerebrovascular disease and hypertension, among other diseases.
Targets(IC50)	Calcium Channel,Na+/Ca2+ Exchanger,Sodium Channel
In vivo	In spontaneously hypertensive rats treated with SM-6586, the survival rate after bilateral common carotid artery ligation is higher, the brain water content is lower, and the ATP level is higher, while lactate level is decreased. In focal ischemia models, the SM-treated group shows a reduction of T1 relaxation time. Additionally, the brain water content is significantly decreased in the SM-treated group[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0428 mL	10.2141 mL	20.4282 mL
5 mM	0.4086 mL	2.0428 mL	4.0856 mL
10 mM	0.2043 mL	1.0214 mL	2.0428 mL
50 mM	0.0409 mL	0.2043 mL	0.4086 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kashiwagi F, et al. Effect of a new calcium antagonist (SM-6586) on experimental cerebral ischemia. Acta Neurochir Suppl (Wien). 1994;60:289-92.

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