

YM-430

Chemical Properties

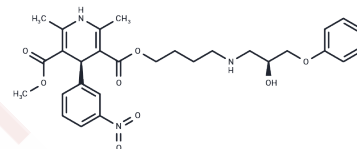
CAS No. : 153192-22-4

Formula: C₂₉H₃₅N₃O₈

Molecular Weight: 553.6

Storage: 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	YM-430 is a β 1 adrenergic receptor antagonist and a calcium channel antagonist. YM430 could be both an antianginal and antihypertensive agent. YM430 (10(-8)-10(-6) M) inhibited 3,4-diaminopyridine-induced rhythmic contractions with an IC ₅₀ value of 59.2 nM. In anesthetized rats, YM430 (10-100 mg/kg PO) inhibited arginine vasopressin-induced ST-segment depression with an IC ₅₀ value of 36.6 mg/kg PO.
Targets(IC50)	Others, Calcium Channel, Adrenergic Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8064 mL	9.0318 mL	18.0636 mL
5 mM	0.3613 mL	1.8064 mL	3.6127 mL
10 mM	0.1806 mL	0.9032 mL	1.8064 mL
50 mM	0.0361 mL	0.1806 mL	0.3613 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

Sasaki S, Nakagawa M. [Calcium channel blocker for therapy of patients with hypertension]. Nihon Rinsho. 1997 Aug;55(8):2061-6. Review. Japanese. PubMed PMID: 9284424.

Shibasaki K, Arai Y, Uchida W, Okazaki T, Asano M, Takenaka T. Antianginal effects of YM430, a novel calcium entry-blocking and beta-adrenoceptor-blocking agent in several experimental angina models. Gen Pharmacol. 1997 Oct;29(4):545-50. PubMed PMID: 9352300.

Shibasaki K, Uchida W, Takizawa K, Masuda N, Okazaki T, Inagaki O, Asano M, Takenaka T. Cardiovascular effects of YM430, a 1,4-dihydropyridine derivative with beta-adrenoceptor blocking activity, in dogs and rats. Biol Pharm Bull. 1997 Mar;20(3):230-6. PubMed PMID: 9084878.

Shibasaki K, Takizawa K, Uchida W, Takenaka T. Hypotensive effects of YM430, a 1,4-dihydropyridine derivative, in spontaneously hypertensive rats and renal hypertensive dogs. Jpn J Pharmacol. 1997 Feb;73(2):113-24. PubMed PMID: 9074945.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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