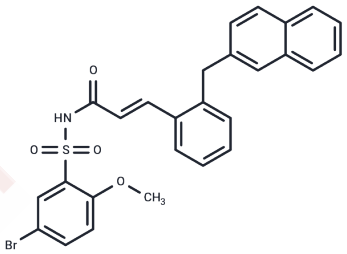
Data Sheet (Cat.No.T15689)

TargetMol

L-798106

Chemical Properties



CAS No. : 244101-02-8

Formula: C27H22BrNO4S

Molecular Weight: 536.44

Storage: Keep away from moisture
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	L-798106 (CM9) is a selective and potent prostaglandin-like EP3 receptor antagonist that inhibits EP4, EP1, and EP2 receptors, suppresses levels of pro-inflammatory cytokines in atherosclerosis, and attenuates PGE2-induced cough.
Targets(IC50)	Prostaglandin Receptor
In vitro	In the guinea-pig vas deferens, L-798106 (200 nM) showed an apparent pA2 of 7.48±0.25[2].
In vivo	In male db/db mice, L-798106 (50 and 100 μg/kg; oral gavage; once daily; 8 weeks) suppressed the increased fasting blood glucose levels and inhibited the increased proinflammatory gene expressions in adipocytes isolated from epididymal adipose tissue of db/db mice[3].

Solubility Information

Solubility	DMSO: 5 mg/mL (9.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8641 mL	9.3207 mL	18.6414 mL
5 mM	0.3728 mL	1.8641 mL	3.7283 mL
10 mM	0.1864 mL	0.9321 mL	1.8641 mL
50 mM	0.0373 mL	0.1864 mL	0.3728 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

Juteau H, et al. Structure-activity relationship of cinnamic acylsulfonamide analogues on the human EP3 prostanoid receptor. Bioorg Med Chem. 2001 Aug;9(8):1977-84.

Deborah L Clarke, et al. E-ring 8-isoprostanes inhibit ACh release from parasympathetic nerves innervating guinea-pig trachea through agonism of prostanoid receptors of the EP3-subtype. Br J Pharmacol. 2004 Feb;141(4):600-9.

Pei-Chi Chan, et al. Importance of adipocyte cyclooxygenase-2 and prostaglandin E2-prostaglandin E receptor 3 signaling in the development of obesity-induced adipose tissue inflammation and insulin resistance. FASEB J. 2016 Jun;30(6):2282-97.