

U-46619

Chemical Properties

CAS No. : 56985-40-1

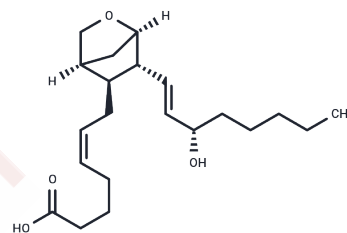
Formula: C₂₁H₃₄O₄

Molecular Weight: 350.49

Store at low temperature

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	U-46619 is an effective thromboxane A ₂ (TXA ₂) agonist and a thromboxane A ₂ analog (endoperoxide), capable of inducing contraction in the aortic smooth muscle (SM) of mice with a myosin light chain 9 (Myl9) gene deletion.
Targets(IC50)	PPAR, Progesterone Receptor, Prostaglandin Receptor
In vitro	U-46619 (5 µg/kg; i.v.) significantly increased blood pressure in male spontaneously hypertensive rats.[3] The effect of Esmolol on blood pressure in male spontaneously hypertensive rats was shown in the study. [3]
In vivo	U-46619 (5 µg/kg; i.v.) significantly increased blood pressure in male spontaneously hypertensive rats.[3] The effect of Esmolol on blood pressure in male spontaneously hypertensive rats was shown in the study. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8531 mL	14.2657 mL	28.5315 mL
5 mM	0.5706 mL	2.8531 mL	5.7063 mL
10 mM	0.2853 mL	1.4266 mL	2.8531 mL
50 mM	0.0571 mL	0.2853 mL	0.5706 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

Ohkubo S, et al. Thromboxane A₂-mediated shape change: independent of Gq-phospholipase C--Ca²⁺ pathway in rabbit platelets. *Br J Pharmacol.* 1996;117(6):1095-1104.

Su L, et al. The prostaglandin H₂ analog U-46619 improves the differentiation efficiency of human induced pluripotent stem cells into endothelial cells by activating both p38MAPK and ERK1/2 signaling pathways. *Stem Cell Res Ther.* 2018;9(1):313.

Schirner M, et al. U 46619 induces different blood pressure effects in male and female spontaneously hypertensive rats (SHR). *Prostaglandins Leukot Essent Fatty Acids.* 1993;48(6):469-473.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481