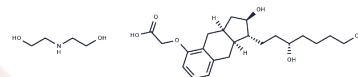


Treprostinil diethanolamine

Chemical Properties

CAS No. :	830354-48-8
Formula:	C ₂₇ H ₄₅ N ₇ O ₇
Molecular Weight:	495.65
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	Treprostinil diethanolamine (UT-15C) is a potent agonist of EP ₂ , DP ₁ , and IP, with values of 3.6, 4.4, and 32.1 nM for EP ₂ , DP ₁ , and IP, respectively, and 212, 826, 2505, and 4680 nM for EP ₁ , EP ₄ , EP ₃ , and FPKi, respectively. Treprostinil diethanolamine contributes to the upregulation of cAMP, maintaining vascular homeostasis and causing vasodilation in human pulmonary arteries.
Targets(IC ₅₀)	Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 5.5 mg/mL (11.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0176 mL	10.0878 mL	20.1755 mL
5 mM	0.4035 mL	2.0176 mL	4.0351 mL
10 mM	0.2018 mL	1.0088 mL	2.0176 mL
50 mM	0.0404 mL	0.2018 mL	0.4035 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

Whittle BJ, et, al. Binding and activity of the prostacyclin receptor (IP) agonists, treprostinil and iloprost, at human prostanoid receptors: treprostinil is a potent DP1 and EP2 agonist. *Biochem Pharmacol.* 2012 Jul 1;84(1):68-75.

Kazemi Z, et, al. Repurposing Treprostinil for Enhancing Hematopoietic Progenitor Cell Transplantation. *Mol Pharmacol.* 2016 Jun;89(6):630-44.

Ghonem N, et, al. Treprostinil, a prostacyclin analog, ameliorates ischemia-reperfusion injury in rat orthotopic liver transplantation. *Am J Transplant.* 2011 Nov;11(11):2508-16.

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