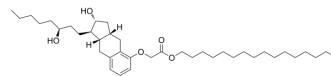


Treprostinil palmitil

Cat. No.:	HY-109163
CAS No.:	1706528-83-7
Molecular Formula:	C ₃₉ H ₆₆ O ₅
Molecular Weight:	614.94
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (325.23 mM; Need ultrasonic)																			
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Preparing Stock Solutions 1 mM</td> <td>1.6262 mL</td> <td>8.1309 mL</td> <td>16.2617 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3252 mL</td> <td>1.6262 mL</td> <td>3.2523 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1626 mL</td> <td>0.8131 mL</td> <td>1.6262 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	Preparing Stock Solutions 1 mM	1.6262 mL	8.1309 mL	16.2617 mL	5 mM	0.3252 mL	1.6262 mL	3.2523 mL	10 mM	0.1626 mL	0.8131 mL	1.6262 mL
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	Please refer to the solubility information to select the appropriate solvent.																			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 9.09 mg/mL (14.78 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 5 mg/mL (8.13 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (8.13 mM); Clear solution 																			

BIOLOGICAL ACTIVITY

Description	Treprostinil palmitil (TP) is the proagent of DP1 and EP2 agonist, Treprostinil (UT-15), whose EC ₅₀ values were 0.6 and 6.2 nM, respectively. Treprostinil palmitil is a pure proagent and possesses no inherent binding to G-protein coupled receptors including prostanoid receptors ^{[1][2]} .
IC₅₀ & Target	DP

REFERENCES

[1]. Chapman RW, Corboz MR, Malinin VS, Plaunt AJ, Konicek DM, Li Z, Perkins WR. An overview of the biology of a long-acting inhaled treprostinil prodrug. *Pulm Pharmacol Ther.* 2020 Dec;65:102002.

Caution: Product has not been fully validated for medical applications. For research use only.

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