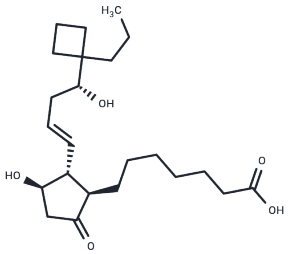
Data Sheet (Cat.No.T82805)

TargetMol

Butaprost free acid

Chemical Properties



CAS No. : 215168-33-5

Formula: C23H38O5

Molecular Weight: 394.54

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(R)-Butaprost (free acid) is a prostaglandin E2 (PGE2) analog exhibiting high EP2 receptor subtype selectivity, commonly used to delineate EP receptor expression in human and animal tissues and cells. In 1986, Gardiner induced significant confusion regarding its structure by incorrectly identifying the selective C-16 epimer as (R)-butaprost (refer to the British Journal of Pharmacology, page 46, as TR 4979, and notes). By removing the methyl ester and restoring the native carboxylic acid at C-1, the binding affinity for prostaglandin receptors was enhanced, given such free acids typically display 10 to 100 times greater affinity than their ester counterparts. Although not extensively studied pharmacologically, (R)-butaprost is generally viewed as the less active C-16 epimer, with careful studies conducted later in the United States and Japan ultimately establishing the correct active structure as the 16(S) epimer.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5346 mL	12.673 mL	25.346 mL
5 mM	0.5069 mL	2.5346 mL	5.0692 mL
10 mM	0.2535 mL	1.2673 mL	2.5346 mL
50 mM	0.0507 mL	0.2535 mL	0.5069 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.

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