

Misoprostol

Catalog No: tcsc2828



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

59122-46-2

Formula:

$C_{22}H_{38}O_5$

Pathway:

GPCR/G Protein

Target:

Prostaglandin Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 6.4 mg/mL (16.73 mM; Need ultrasonic and warming)

Alternative Names:

SC-29333

Observed Molecular Weight:

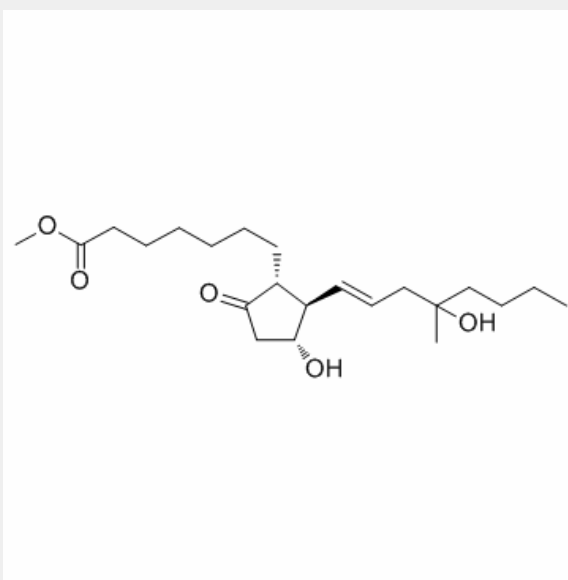
382.53

Product Description

Misoprostol(SC29333) is a synthetic prostaglandin E1 (PGE1) analog that is used to prevent gastric ulcers, to treat missed miscarriage, to induce labor, and to induce abortion.

Target: Prostaglandin Receptor

Misoprostol is a synthetic analog of natural prostaglandin E1. It produces a dose-related inhibition of gastric acid and pepsin secretion, and enhances mucosal resistance to injury. It is an effective anti-ulcer agent and also has oxytotic properties. Misoprostol seems to inhibit gastric acid secretion by a direct action on the parietal cells through binding to the prostaglandin receptor. Administration of misoprostol to EP3^{+/+} and EP3^{-/-} mice showed similar levels of infarct rescue, indicating that misoprostol protection was not mediated through the EP3 receptor. Taken together, these findings suggest a novel function for misoprostol as a protective agent in cerebral ischemia acting via the PGE(2) EP2 and/or EP4 receptors [1, 2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!