

Diquafosol (tetrasodium)

Catalog No: tcsc6370



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

211427-08-6

Formula:

$C_{18}H_{22}N_4Na_4O_{23}P_4$

Pathway:

GPCR/G Protein

Target:

P2Y Receptor

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 32 mg/mL (36.44 mM)

Alternative Names:

INS365

Observed Molecular Weight:

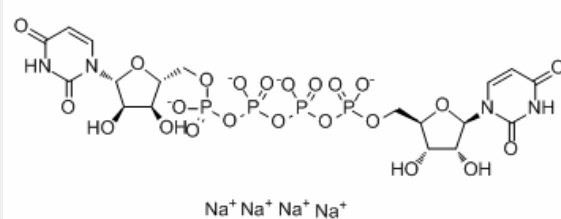
878.23

Product Description

Diquafosol tetrasodium is a **P2Y2** receptor agonist that stimulates fluid and mucin secretion on the ocular surface, as a topical treatment of dry eye disease.

In Vitro: Cell viability significantly decreased after treatment with 30% diluted diquafosol for 1 hour and 6 hours after treatment with 10% and 20% diluted diquafosol. Twenty-four hours after wounding monolayers, 3% diquafosol, and 0.3% HCECs exhibits significantly more wound healing than the control^[1].

In Vivo: In a rat dry eye model, the P2Y2 agonist diquafosol tetrasodium is found to improve surface health, based on increases in tear fluid secretion, corneal epithelial resistance, and release of glycoprotein-containing moieties from goblet cells. Beginning at 2 weeks and continuing for an additional 2 weeks, maximal declines in dye penetrance of approximately 50% occurred with doses of diquafosol tetrasodium as low as 1%^[2]. INS365 significantly suppresses corneal damage at concentrations of more than 0.1% w/v^[3].



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