

Fluoxetine-Conjugated Platinum(IV) prodrug-1

Chemical Properties

CAS No. :

Formula: C₂₁H₂₈Cl₂F₃N₃O₅Pt

Molecular Weight:

Storage: Keep away from direct sunlight, The compound is unstable in solution. Please use soon
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	Fluoxetine-Conjugated Platinum(IV) prodrug-1 is an eEF2K inhibitor that can hinder the proliferation of cancer cells, induce DNA damage, and cause cell cycle arrest at the S phase, leading to apoptosis (Apoptosis). It also promotes the accumulation of reactive oxygen species (ROS) and disrupts mitochondrial function. This prodrug inhibits the migration and invasion of TNBC cells by suppressing MMP-2 activity and induces autophagy in TNBC cells through AMPK activation. In the 4T1-Luc mouse model, it exhibits antitumor activity and triggers immune suppression. Fluoxetine-Conjugated Platinum(IV) prodrug-1 is relevant for research in triple-negative breast cancer (TNBC).
Targets(IC50)	CaMK, Apoptosis, MMP, AMPK, Autophagy

Solubility Information

Solubility	DMSO: Slightly soluble, DMSO inactivates the activity of Fluoxetine-Conjugated Platinum(IV) prodrug-1. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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