

KC7F2, HIF-1α Inhibitor

Catalog	Unit
TBI4714-10MG	10 mg
TBI4714-50MG	50 mg

Product Details

Formal Name: N,N'-(Dithiodi-2,1-ethanediyl)bis[2,5-dichlorobenzenesulfonamide

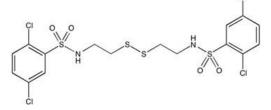
 $\textbf{Molecular Formula:} \ C_{16}H_{16}C_{14}N_2O_4S_4$

Formula Weight: 570.4 CAS Number: 927822-86-4

Purity: >98% **Formulation:** Powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C Stability: ≥ 1 year.



Applications

HIF-1a Inhibitor

Functions

Inhibits HIF-1 α (IC50 = 20 μ M in a HIF-reporter cell line). It suppresses mTORC1 phosphorylation of eukaryotic translation initiation factor 4E binding protein 1 (4EBP1) and p70 S6 kinase (S6K), thereby down-regulating translation of HIF-1 α transcripts into protein1. It shows marked dose-response cytotoxicity (IC50 = 15 - 25 μ M) in cancer cell lines such as MCF7 and A5491. Decreases viability of epidermal stem cells in a wound healing model. Treatment with 10 μ M KC7F2 significantly reduced NKCC1, but not NFAT5, expression in hippocampal neurons in a model of hypoxia-ischemia.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.