

Product Name: KC7F2

Catalog No.: 4324

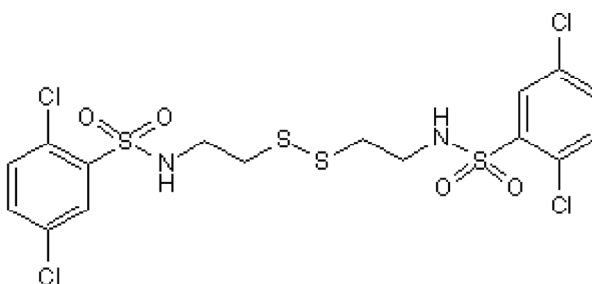
Batch No.: 1

CAS Number: 927822-86-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆Cl₄N₂O₄S₄
Batch Molecular Weight: 570.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Ethyl acetate:Petroleum ether [2:3])
HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Sulfur
Theoretical	33.69	2.83	4.91	22.49
Found	34.02	2.94	4.83	22.67

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

KC7F2 is an inhibitor of HIF-1 α . Thought to act via down-regulation of HIF-1 α protein synthesis; reduces phosphorylation of eIF4E binding protein 1 (4EBP1) and p70 S6K in hypoxic conditions. Also blocks hypoxia-induced HIF-1 α accumulation in a range of human cancer cell lines. Inhibits the expression of HIF target genes, such as carbonic anhydrase IX and MMP2.

Physical and Chemical Properties:

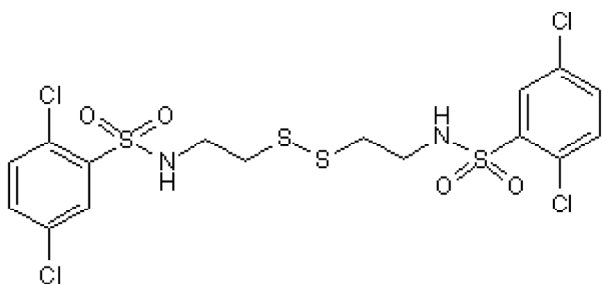
Batch Molecular Formula: C₁₆H₁₆Cl₄N₂O₄S₄

Batch Molecular Weight: 570.38

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Koh et al (2009) Inhibiting the hypoxia response for cancer therapy: the new kid on the block. *Clin.Cancer Res.* **15** 5945. PMID: 19789327.

Narita et al (2009) Identification of a novel small molecule HIF-1 α translation inhibitor. *Clin.Cancer Res.* **15** 6128. PMID: 19789328.

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