

Product Name: IHR 1

Catalog No.: 5554

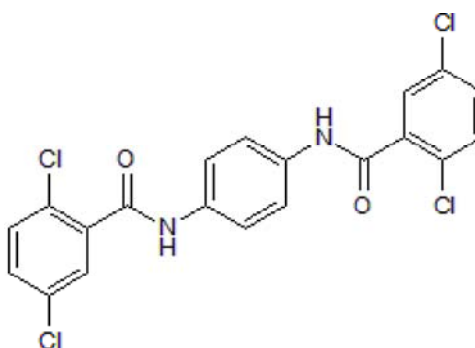
Batch No.: 1

CAS Number: 548779-60-8

IUPAC Name: *N,N'*-1,4-Phenylenebis[2,5-dichlorobenzamide]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₂Cl₄N₂O₂
Batch Molecular Weight: 454.13
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.85 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.9	2.66	6.17
Found	52.99	2.59	6.17

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

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IUPAC Name: *N,N'*-1,4-Phenylenebis[2,5-dichlorobenzamide]

Description:

Potent Smo antagonist (IC₅₀ = 7.6 nM). Selectively inhibits Hedgehog signaling over Wnt and Notch signaling pathways. Blocks Smo accumulation in primary cilium in vitro. Fluorescent Analog also available.

Physical and Chemical Properties:

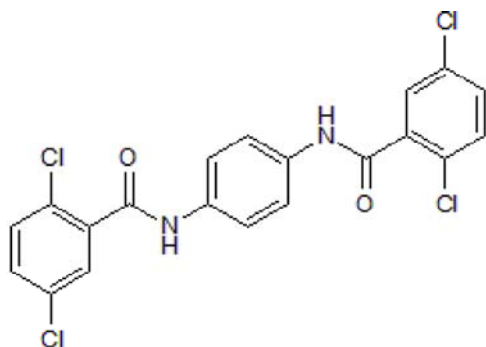
Batch Molecular Formula: C₂₀H₁₂Cl₄N₂O₂

Batch Molecular Weight: 454.13

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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. Our standard recommendations are:

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:

Fan *et al* (2014) The Hedgehog pathway effector smoothed exhibits signaling competency in the absence of ciliary accumulation. *Chem.Biol.* **21** 1680. PMID: 25484239.

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