

Product Name: 2,3-DCPE hydrochloride

Catalog No.: 2137

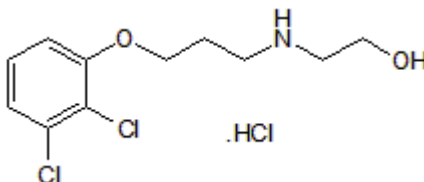
Batch No.: 1

CAS Number: 1009555-55-8

IUPAC Name: 2-[[3-(2,3-Dichlorophenoxy)propyl]amino]ethanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅Cl₂NO₂.HCl
Batch Molecular Weight: 300.61
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 139 - 142°C(dec)
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.95	5.36	4.66
Found	43.79	5.53	4.63

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

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IUPAC Name: 2-[[3-(2,3-Dichlorophenoxy)propyl]amino]ethanol hydrochloride

Description:

Selectively induces apoptosis and downregulates Bcl-XL protein expression in various human cancer cells versus normal cells in vitro. IC₅₀ values are 0.89 and 12.6 μM for LoVo human colon cancer cell line and normal human fibroblasts respectively. Induces p21 expression and S-phase arrest in cancer cells via ERK-mediated pathways.

Physical and Chemical Properties:

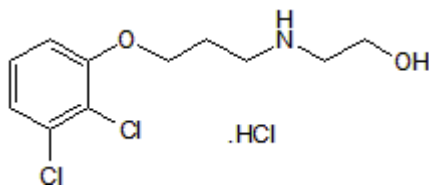
Batch Molecular Formula: C₁₁H₁₅Cl₂NO₂.HCl

Batch Molecular Weight: 300.61

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Wu et al (2004) Induction of apoptosis and down-regulation of Bcl-XL in cancer cells by a novel small molecule, 2[[3-(2,3-Dichlorophenoxy)propyl]amino]ethanol. *Cancer Res.* **64** 1110. PMID: 14871845.

Zhu et al (2004) Induction of S-phase arrest and p21 overexpression by a small molecule 2[[3-(2,3-dichlorophenoxy)propyl]amino]ethanol in correlation with activation of ERK. *Oncogene* **23** 4984. PMID: 15122344.

Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline 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. 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.

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