TOCRIS
a bio-techne brand

Print Date: Feb 11th 2020

Certificate of Analysis

www.tocris.com

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: $C_{11}H_{15}Cl_2NO_2.HCl$

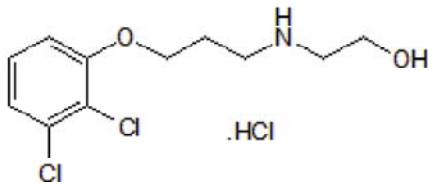
Batch Molecular Weight: 300.61

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 99.7% purity

^{1}H NMR: Consistent with structure

^{13}C NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.95	5.36	4.66
Found	43.79	5.53	4.63

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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

Description:

Selectively induces apoptosis and downregulates Bcl-XL protein expression in various human cancer cells versus normal cells in vitro. IC_{50} 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:

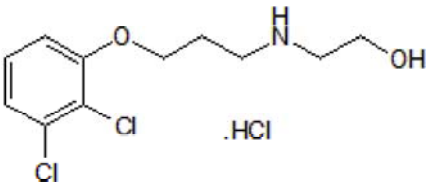
Batch Molecular Formula: $C_{11}H_{15}Cl_2NO_2.HCl$

Batch Molecular Weight: 300.61

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



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.

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.