
Product Data Sheet

Product Name: 2,3-DCPE hydrochloride

Cat. No.: GC12258

Chemical Properties

Cas. No. 418788-90-6

Chemical Name 2-((3-(2,3-dichlorophenoxy)propyl)amino)ethanol hydrochloride

SMILES C1C=CC=CC(OCCCNCCO)=C1Cl.ClFormula $C_{11}H_{15}Cl_2NO_2.HCl$ M.Wt 300.61

Solubility 20 mg/ml in DMSO Storage Desiccate at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

2,3-DCPE is a proapoptotic compound with selectivity for cancer cells versus normal human cells. It induces apoptosis in vitro in various cancer cell lines (IC₅₀s = 0.89-2.69 μM) more effectively than in normal human fibroblasts (IC₅₀ = 12.6 μM). 2,3-DCPE down-regulates Bcl-xL, however forced overexpression of Bcl-xL is sufficient to block 2,3-DCPE apoptosis induction.[1] 2,3-DCPE can induce S-phase arrest, upregulate p21, and activate ERK.[2]

Reference:

[1]. Wu, S., Zhu, H., Gu, J., et al. 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 Research 64, 1110-1113 (2004).

[2]. Zhu, H., Zhang, L., Wu, S., et al. 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, 4984-4992 (2004).

Caution: Product has not been fully validated for medical applications. For research use only.

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