

Product Name: PD 118057

Catalog No.: 2830

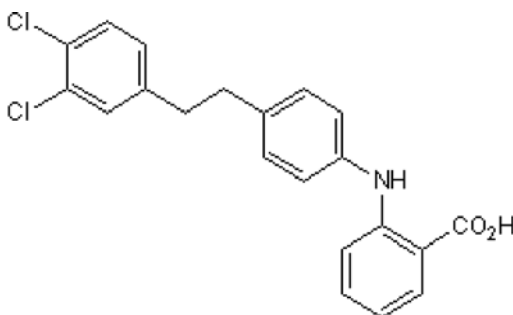
Batch No.: 1

CAS Number: 313674-97-4

IUPAC Name: 2-[[4-[2-(3,4-Dichlorophenyl)ethyl]phenyl]amino]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₇Cl₂NO₂
Batch Molecular Weight: 386.27
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.3	4.44	3.63
Found	64.98	4.63	3.39

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

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Description:

PD 118057 is a human ether-a-go-go (hERG) K_v11.1 potassium channel activator. Displays no major effect on I_{Na}, I_{Ca/L}, I_{K1} and I_{Ks} currents. Causes resting membrane hyperpolarization and decreases action potential duration in rat myocytes in vitro.

Physical and Chemical Properties:

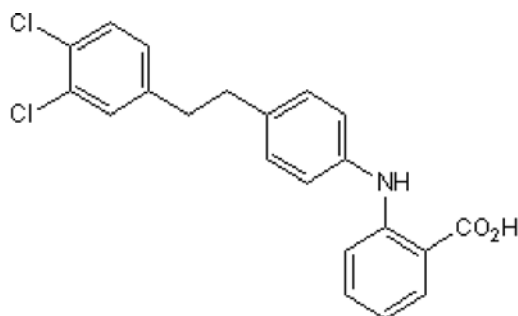
Batch Molecular Formula: C₂₁H₁₇Cl₂NO₂

Batch Molecular Weight: 386.27

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Duff (2008) hERG: The long and short of it. *Heart Rhythm* **5** 591. PMID: 18362028.

Yeung and Greenwood (2007) Pharmacological and biophysical isolation of K⁺ currents encoded by *ether-a-go-go*-related genes in murine hepatic portal vein smooth muscle cells. *Am.J.Physiol.Cell.Physiol.* **292** C468. PMID: 16870833.

Zhou et al (2005) Novel potent human ether-a-go-go-related gene (hERG) potassium channel enhancers and their in vitro antiarrhythmic activity. *Mol.Pharmacol.* **68** 876. PMID: 15976038.

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