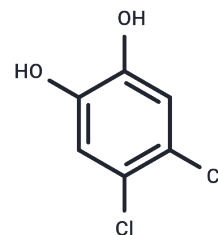


4,5-Dichlorocatechol

Chemical Properties

CAS No. :	3428-24-8
Formula:	C ₆ H ₄ Cl ₂ O ₂
Molecular Weight:	179
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4,5-Dichlorocatechol serves as a substrate for the broad-spectrum chlorocatechol 1,2-dioxygenase in <i>Pseudomonas chlororaphis</i> RW71. Its inhibition constant (K _i) values for the dioxygenase enzyme are 30 nM with the Chlorobenzoate-degrading strain <i>Pseudomonas putida</i> AC27, and 4 nM for the dioxygenase in <i>Acidovorax</i> sp. strain PS14.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (307.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5866 mL	27.933 mL	55.8659 mL
5 mM	1.1173 mL	5.5866 mL	11.1732 mL
10 mM	0.5587 mL	2.7933 mL	5.5866 mL
50 mM	0.1117 mL	0.5587 mL	1.1173 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

T Potrawfke , et al. Chlorocatechols Substituted at Positions 4 and 5 Are Substrates of the Broad-Spectrum Chlorocatechol 1,2-dioxygenase of *Pseudomonas Chlororaphis* RW71. *J Bacteriol.* 2001 Feb;183(3):997-1011.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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