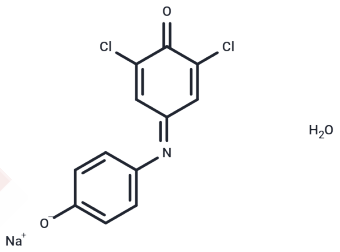
Data Sheet (Cat.No.T89068)

TargetMol

2,6-Dichlorophenolindophenol sodium hydrate

Chemical Properties



CAS No. : 1266615-56-8

Formula: C12H8Cl2NNaO3

Molecular Weight: 308.09

Storage: Keep away from direct sunlight
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	2,6-Dichlorophenolindophenol sodium hydrate (DCPIP) is a blue-colored redox dye commonly employed as an indicator for the determination of vitamin C (ascorbic acid) content. DCPIP undergoes a reduction reaction with vitamin C, during which it changes from a blue-colored oxidized state to a colorless reduced form, providing a simple visual assay for ascorbic acid. Beyond vitamin C determination, DCPIP is utilized in diverse research applications, including the evaluation of enzymatic activity of gold nanoparticles, the development of UVB-specific dosimeters, its role as an electron acceptor in histochemical staining techniques, and investigations of mitochondrial electron transport chain activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 25 mg/mL (81.15 mM),Sonication is recommended. H2O: insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2458 mL	16.229 mL	32.458 mL
5 mM	0.6492 mL	3.2458 mL	6.4916 mL
10 mM	0.3246 mL	1.6229 mL	3.2458 mL
50 mM	0.0649 mL	0.3246 mL	0.6492 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.