

Product Datasheet

Sodium dichloroacetate (orb1304008)

Catalog Number	orb1304008
Category	Small Molecules
Description	Sodium dichloroacetate (DCA) is a small molecule PDK inhibitor that shifts tumor cell metabolism from glycolysis to oxidative phosphorylation. This action reduces lactate, elevates ROS, and induces apoptosis, making it a valuable tool for studying cancer metabolism in both in vitro and in vivo experimental models.
Target	Na-K-Cl cotransporter, Apoptosis, Reactive Oxygen Species, Dehydrogenase, ROS, PDK
Purity	99.87% (May vary between batches)
MW	150.92
Target Areas	Dehydrogenase Na-K-Cl cotransporter ROS Apoptosis Reactive Oxygen Species PDK
Solubility (25°C)	H2O:166.66 mg/mL (1104.29 mM);DMSO:26 mg/mL (172.28 mM)
CAS Number	2156-56-1
Formula	$C_2HCl_2NaO_2$
SMILES	<chem>C(C(=O)[O-])(Cl)Cl.[Na+]</chem>
Storage	Powder: -20°C for 3 years In solvent: -80°C for 1 year Shipping with blue ice/Shipping at ambient temperature.
Note	For research use only
Expiration Date	12 months from date of receipt.

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