CD BioGlyco
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Product Information

PTP inhibitor NSC87877 disodium salt, Purity ≥98%

Cat. No.: X24-05-ZQ617

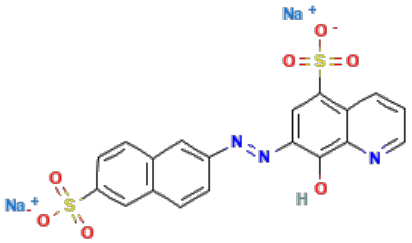
Size: 10 mg; 25 mg; 100 mg

CAS Number: 56932-43-5

Compound CID: 92576

Synonym: 56932-43-5; NSC-87877; NSC 87877; Protein tyrosine phosphatase inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	NSC87877 disodium salt, soluble in DMSO and water and insoluble in ethanol, blocks the activity of enzymes that remove phosphate groups from tyrosine residues in proteins, affecting signal transduction and cellular processes. It targets SHP-1 and SHP-2.
Molecular Weight	503.42
Molecular Formula	$C_{19}H_{13}N_3O_7S_2.2Na$
Targets	SHP-1: 355 nM; SHP-2: 318 nM
IUPAC Name	Disodium;8-hydroxy-7-[(6-sulfonatonaphthalen-2-yl)diazenyl]quinoline-5-sulfonate
InChI	InChI=1S/C19H13N3O7S2.2Na/c23-19-16(10-17(31(27,28)29)15-2-1-7-20-18(15)19)22-21-13-5-3-12-9-14(30(24,25)26)6-4-11(12)8-13;;/h1-10,23H,(H,24,25,26)(H,27,28,29);;/q;2*+1/p-2
InChI Key	IFVGQKHFUZRWNA-UHFFFAOYSA-L
Canonical SMILES	C1=CC2=C(C=C(C(=C2N=C1)O)N=NC3=CC4=C(C=C3)C=C(C=C4)S(=O)(=O)[O-])S(=O)(=O)[O-].[Na+].[Na+]
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 85 mg/mL (168.84 mM); Water: 85 mg/mL (168.84 mM); Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	NSC87877 disodium salt can be used to inhibit SHP2 and SHP1 phosphatase activities in various cellular signaling studies.

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Storage	Store at -20ºC.

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