CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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Product Information

Ribonucleotide reductase inhibitor, COH29, Purity ≥98%

Cat. No.: X24-09-YM592

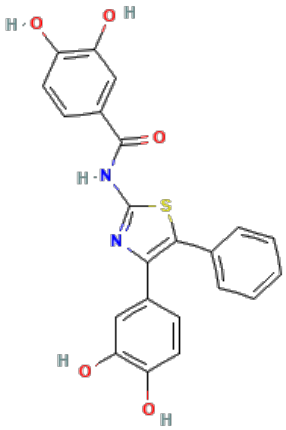
Size: 1 mg; 5 mg; 10 mg; 50 mg

MDL: MFCD28502212

CAS Number: 1190932-38-7

Compound CID: 44253415

Synonym: 1190932-38-7; COH 29; COH-29; *N*-[4-(3,4-Dihydroxyphenyl)-5-phenyl-1,3-thiazol-2-yl]-3,4-dihydroxybenzamide; Ribonucleotide reductase inhibitor



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

Product Information

Description	COH29, soluble in DMSO, water and ethanol, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting ribonucleotide reductase. The molecular weight of the compound is 420.43, and its molecular formula is $C_{22}H_{16}N_2O_5S$.
Molecular Weight	420.43
Molecular Formula	$C_{22}H_{16}N_2O_5S$
IUPAC Name	*N*-[4-(3,4-Dihydroxyphenyl)-5-phenyl-1,3-thiazol-2-yl]-3,4-dihydroxybenzamide
InChI	InChI=1S/C22H16N2O5S/c25-15-8-6-13(10-17(15)27)19-20(12-4-2-1-3-5-12)30-22(23-19)24-21(29)14-7-9-16(26)18(28)11-14/h1-11,25-28H,(H,23,24,29)
InChI Key	LGGDLPSXAGQFSG-UHFFFAOYSA-N
Canonical SMILES	C1=CC=C(C=C1)C2=C(N=C(S2)NC(=O)C3=CC(=C(C=C3)O)O)C4=CC(=C(C=C4)O)O
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO: 40 mg/mL (95.13 mM); Water: 59 mg/mL (140.32 mM); Ethanol: 10 mg/mL (23.78 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	COH29 plays a key role in reducing glycolytic flux and impacting cellular energy metabolism.

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Storage	Store at -20ºC, and keep desiccated.