

DC10SMe

Chemical Properties

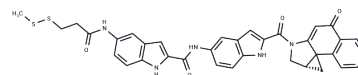
CAS No. :

Formula: C₃₅H₂₉N₅O₄S₂

Molecular Weight: 647.77

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DC10SMe is a DNA alkylating agent that can be used in the synthesis of antibody-drug conjugates (ADC). The IC ₅₀ of DC10SMe for Ramos, Namalwa and HL60 / s cancer cells were 15 pM, 12 pM and 12 pM, respectively.
Targets(IC ₅₀)	Others
In vitro	DC10SMe is an active cyclopropyl form. DC10SMe undergoes N-3 alkylation with adenine residues to form DNA adducts.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5438 mL	7.7188 mL	15.4376 mL
5 mM	0.3088 mL	1.5438 mL	3.0875 mL
10 mM	0.1544 mL	0.7719 mL	1.5438 mL
50 mM	0.0309 mL	0.1544 mL	0.3088 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.

Reference

Zhao RY, et al. Synthesis and biological evaluation of antibody conjugates of phosphate prodrugs of cytotoxic DNA alkylators for the targeted treatment of cancer. J Med Chem. 2012 Jan 26;55(2):766-82.

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