
Product Data Sheet

Product Name: Duocarmycin

Cat. No.: GC35907

Chemical Properties

Cas. No. 1116745-06-2

SMILES O=C(N1C[C@@H](CCl)C2=C1C=C(O)C3=CC=CC=C23)C(N4)=CC5=C4C=CC(OCCN(C)C)=C5Formula C₂₆H₂₆ClN₃O₃ M.Wt 463.96

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Duocarmycin is based on its characteristic curved indole structure and a spirocyclopropylcyclohexadienone electrophile to act anticancer activity. Duocarmycin is a DNA minor groove binding alkylating agent and explored as drug-antibody conjugates (ADCs) [1].

[1]. Koch MF, et al. Structural, Biochemical, and Computational Studies Reveal the Mechanism of Selective Aldehyde Dehydrogenase 1A1 Inhibition by Cytotoxic Duocarmycin Analogues. *Angew Chem Int Ed Engl.* 2015 Nov 9;54(46):13550-4.

Caution: Product has not been fully validated for medical applications. For research use only.

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