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## Product Data Sheet

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Product Name: Duocarmycin A

Cat. No.: GC35908

**Chemical Properties**

Cas. No. 118292-34-5

SMILES O=C([C@@](N1)(C)C(C([C@@]23[C@@](C3)[H])CN(C(C(N4)=CC5=C4C(OC)=C(OC)C(OC)=C5)=O)C2=C6)=C1C6=O)=O)OC

Formula	C <sub>26</sub> H <sub>25</sub> N <sub>3</sub> O <sub>8</sub>	M.Wt	507.49
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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 A, which is one of well-known antitumor antibiotics, efficiently alkylates adenine N3 at the 3' end of AT-rich sequences in the DNA. Duocarmycin A, as a chemotherapeutic agent, results HLC-2 cells typically apoptotic changes, including chromatin condensation, sub-G1 accumulation in DNA histogram pattern, and decrease in procaspase-3 and 9 levels[1]. Procaspase-3 Caspase-9

[1]. Hirota M, et al. Distamycin A enhances the cytotoxicity of duocarmycin A and suppresses duocarmycin A-induced apoptosis in human lung carcinoma cells. *Int J Biochem Cell Biol.* 2007;39(5):988-96.

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

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