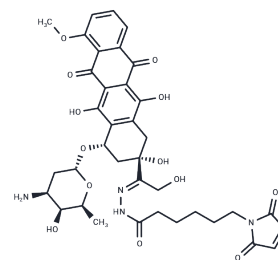


Aldoxorubicin

Chemical Properties

CAS No. :	1361644-26-9
Formula:	C37H42N4O13
Molecular Weight:	750.75
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Aldoxorubicin has effective antitumor activities in various cancer cell lines and in murine tumor models. Aldoxorubicin is an albumin-binding prodrug of Doxorubicin (DNA topoisomerase II inhibitors).
Targets(IC50)	Topoisomerase
In vitro	Aldoxorubicin (0.27 to 2.16 μ M) suppresses blood vessel formation. Aldoxorubicin (0.27 to 2.16 μ M) also reduces multiple myeloma cell growth in a pH-dependent fashion.
In vivo	Aldoxorubicin displays a good safety profile at doses up to 260 mg/mL doxorubicin equivalents and is able to cause tumor regressions in breast cancer, small cell lung cancer, and sarcoma in phase I study[2]. In a murine renal cell carcinoma model and in breast carcinoma xenograft models, Aldoxorubicin also shows superior activity over doxorubicin [3]. On days 28, Aldoxorubicin (10.8 mg/kg, i.v.) displays obviously smaller tumor volumes and IgG levels, and is well tolerated with 90% of mice surviving until the termination of the study in the mice bearing the LAGk-1A tumor[1].

Solubility Information

Solubility	DMSO: 75 mg/mL (99.90 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.332 mL	6.660 mL	13.320 mL
5 mM	0.2664 mL	1.332 mL	2.664 mL
10 mM	0.1332 mL	0.666 mL	1.332 mL
50 mM	0.0266 mL	0.1332 mL	0.2664 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

Wang X, Ji Y, Jin D, et al. Natural Polysaccharide β -Glucan Protects against Doxorubicin-Induced Cardiotoxicity by Suppressing Oxidative Stress. *Nutrients*. 2022, 14(4): 906.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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