

ADR-925

## Chemical Properties

CAS No. : 75459-34-6

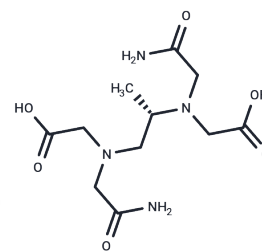
Formula: C<sub>11</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>

Molecular Weight: 304.3

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ADR-925, an active chelated iron metabolite of dexrazoxane, has the ability to protect neonatal rat cardiomyocytes from doxorubicin-induced injury.
Targets(IC50)	Endogenous Metabolite
In vivo	<b>METHODS:</b> ADR-925 (ICRF 198) (88 mg/kg, intraperitoneal injection, 30 minutes before doxorubicin injection, once a week, 12 times) was administered to mice to observe the protective effect of ADR-925 against the lethal effects of mice. <b>RESULTS</b> In animals pretreated with ADR559, there was partial protection against the lethal effects of doxorubicin. [2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2862 mL	16.4312 mL	32.8623 mL
5 mM	0.6572 mL	3.2862 mL	6.5725 mL
10 mM	0.3286 mL	1.6431 mL	3.2862 mL
50 mM	0.0657 mL	0.3286 mL	0.6572 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Schroeder PE, et al. Metabolism of the one-ring open metabolites of the cardioprotective drug dexrazoxane to its active metal-chelating form in the rat. *Drug Metab Dispos.* 2005 Sep;33(9):1367-72.

Herman EH, et al. Comparison of the protective effects against chronic doxorubicin cardiotoxicity and the rates of iron (III) displacement reactions of ICRF-187 and other bisdiketopiperazines. *Cancer Chemother Pharmacol.* 1997; 40(5):400-8.

Schroeder PE, et al. The doxorubicin-cardioprotective drug dexrazoxane undergoes metabolism in the rat to its metal ion-chelating form ADR-92. *Cancer Chemother Pharmacol.* 2002 Dec;50(6):509-13.

Hasinoff BB, et al. The removal of metal ions from transferrin, ferritin and ceruloplasmin by the cardioprotective agent ICRF-187 [(+)-1,2-bis(3,5-dioxopiperazinyl-1-yl)propane] and its hydrolysis product ADR-92. *Agents Actions.* 1993 May;39(1-2):72-81.

Hasinoff BB. NADPH-cytochrome-P450 reductase promotes hydroxyl radical production by the iron complex of ADR-925, the hydrolysis product of ICRF-187 (dexrazoxane). *Free Radic Res.* 1995 Apr;22(4):319-25.

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