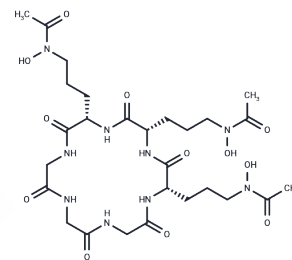


## Ferrichrome (iron-free)

## Chemical Properties

CAS No. :	34787-28-5
Formula:	C <sub>27</sub> H <sub>45</sub> N <sub>9</sub> O <sub>12</sub>
Molecular Weight:	687.71
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Ferrichrome (iron-free) is an iron carrier derived from isoxazoles produced by various fungi, including <i>U. sphaerogena</i> , which enhances iron chelation and absorption in these organisms. In bacteria, Ferrichrome (iron-free) can be utilized as an exogenous iron carrier, such as in <i>Pseudomonas aeruginosa</i> and <i>Vibrio parahaemolyticus</i> . Ferrichrome (iron-free) (0.8 μM) inhibits the proliferation of mouse splenic monocytes induced by concanavalin A and reduces the expression of the IL-2 receptor on CD4+ T cells. Furthermore, Ferrichrome (iron-free) inhibits the heme-catalyzed oxidation of LDL by hydrogen peroxide in a concentration-dependent manner.
Targets(IC50)	Others

## Solubility Information

Solubility	H <sub>2</sub> O: 8.00 mg/mL (11.63 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	1.4541 mL	7.2705 mL	14.541 mL
5 mM	0.2908 mL	1.4541 mL	2.9082 mL
10 mM	0.1454 mL	0.7271 mL	1.4541 mL
50 mM	0.0291 mL	0.1454 mL	0.2908 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481