

Iron Dextran

Chemical Properties

CAS No. :	9004-66-4
Formula:	FeH2O4S
Molecular Weight:	153.92
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Iron dextran

Biological Description

Description	Iron Dextran (Fero Gradumet) is an iron supplement, used in the study of iron deficiency anemia.
Targets(IC50)	Others
In vivo	Normal mice receive intraperitoneal injection of Iron Dextran (1 g/kg) once a week for 8 weeks, resulting in iron overload. Through observing changes in iron content in urine, liver and heart of mice, it was found that mice have a mechanism to clear excess iron from the body. [1] The absorption rate and acute toxicity of intraperitoneal injection of Iron Dextran in rats showed that more than 70% of Iron Dextran was absorbed from the peritoneal cavity of the rats. The results showed that intraperitoneal injection of Iron Dextran might be another way of iron delivery. [2]

Solubility Information

Solubility	H2O: 40 mg/mL (259.88 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	6.4969 mL	32.4844 mL	64.9688 mL
5 mM	1.2994 mL	6.4969 mL	12.9938 mL
10 mM	0.6497 mL	3.2484 mL	6.4969 mL
50 mM	0.1299 mL	0.6497 mL	1.2994 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

Musumeci M, et al. Iron excretion in iron dextran-overloaded mice. *Blood Transfus.* 2014 Oct;12(4):485-90.

Suzuki K, et al. Absorption of iron dextran from the peritoneal cavity of rats. *Adv Perit Dial.* 1995;11:57-9.

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