

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: 10.74 mg/mL (69.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

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