



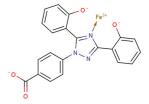
Deferasirox (Fe3+ chelate)

Chemical Properties

CAS No.: 554435-83-5 Formula: C21H12FeN3O4

Molecular Weight: 426.18
Appearance: N/A

Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Deferasirox Fe3 + chelating agent is a well-designed oral iron chelating agent. Its main use is to reduce chronic iron overload in patients receiving long-term blood transfusions (such as thalassemia and other chronic anemia).
Targets(IC ₅₀)	Others: None
In vitro	Deferasirox is the first oral drug approved for this purpose in the United States. The half-life of deferasirox is between 8 and 16 hours, allowing administration once a day. The two molecules of deferasirox are able to bind to one iron atom, which is then eliminated by fecal excretion. Because of its low molecular weight and high lipophilicity, the drug can be taken orally, which is different from deferoxamine, which must be administered by intravenous injection (intravenous infusion).

Solubility Information

Solubility	DMSO: 50 mg/mL (117.32 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.346 mL	11.732 mL	23.464 mL
5 mM	0.469 mL	2.346 mL	4.693 mL
10 mM	0.235 mL	1.173 mL	2.346 mL
50 mM	0.047 mL	0.235 mL	0.469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - $80 \,^{\circ}$ C for 6 months; - $20 \,^{\circ}$ C for 1 month. Please use it as soon as possible.

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Reference

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- 3. Galanello R, Campus S, Origa R. Deferasirox: pharmacokinetics and clinical experience. Expert Opin Drug Metab Toxicol. 2012 Jan;8(1):123-34.
- 4. Donnelly JP, Lahav M. Deferasirox as adjunctive therapy for mucormycosis. J Antimicrob Chemother. 2012 Mar;67(3):519-20.
- 5. Lui GY, Obeidy P, Ford SJ et al. The Iron Chelator, Deferasirox, as a Novel Strategy for Cancer Treatment: Oral Activity Against Human Lung Tumor Xenografts and Molecular Mechanism of Action. Mol Pharmacol. 2012 Oct 16. [Epub ahead of print]

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