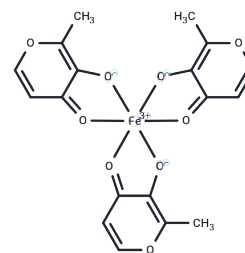


Ferric maltol

Chemical Properties

CAS No. :	33725-54-1
Formula:	C ₁₈ H ₁₅ FeO ₉
Molecular Weight:	431.15
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ferric maltol (Iron(III) 2-methyl-4-oxo-4H-pyran-3-olate) is a ferric, non-salt-based oral iron formulation demonstrating improved tolerance in patients with previous intolerance to other iron formulations.
Targets(IC50)	Others
In vitro	Ferric maltol increases transferrin saturation and levels of serum ferritin, ?serum iron, blood hemoglobin, and reticulocyte hemoglobin[1].
In vivo	Iron that is not absorbed from Ferric maltol can remain in its chelated form at least throughout the small intestine, minimizing the risk of intestinal mucosal damage from free iron and potentially reducing local toxicity[1].

Solubility Information

Solubility	DMSO: 15 mg/mL (34.79 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3194 mL	11.5969 mL	23.1938 mL
5 mM	0.4639 mL	2.3194 mL	4.6388 mL
10 mM	0.2319 mL	1.1597 mL	2.3194 mL
50 mM	0.0464 mL	0.2319 mL	0.4639 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.

Reference

Stallmach A, et al. Ferric maltol (ST10): a novel oral iron supplement for the treatment of iron deficiency anemia in inflammatory bowel disease. Expert Opin Pharmacother. 2015;16(18):2859-67.

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