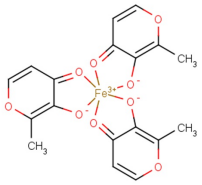
Data Sheet (Cat.No.T13692)

TargetMol
A DRUG SCREENING EXPERT

Ferric maltol

Chemical Properties



CAS No.:	33725-54-1
Formula:	C18H15FeO9
Molecular Weight:	431.15
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Ferric maltol has tha potential for iron deficiency anemia treatment in inflammatory bowel disease. Ferric maltol is an oral active complex of a single ferric ion (Fe3+).
Targets(IC_{50})	Others: None
In vitro	The administration of Ferric maltol can increase transferrin saturation and levels of serum ferritin, serum iron, blood hemoglobin, and reticulocyte hemoglobin.
In vivo	Animal studies show that 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.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.319 mL	11.597 mL	23.194 mL
5 mM	0.464 mL	2.319 mL	4.639 mL
10 mM	0.232 mL	1.16 mL	2.319 mL
50 mM	0.046 mL	0.232 mL	0.464 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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