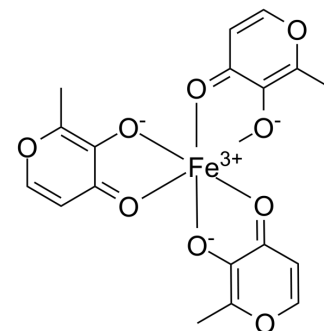


Ferric maltol

Cat. No.:	HY-108017		
CAS No.:	33725-54-1		
Molecular Formula:	C ₁₈ H ₁₅ FeO ₉		
Molecular Weight:	431.15		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (28.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.90 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (2.90 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Ferric maltol is an orally active complex of a single ferric ion (Fe ³⁺). Ferric maltol has the potential for iron deficiency anemia treatment in inflammatory bowel disease ^[1] .
In Vitro	The administration of Ferric maltol can increase transferrin saturation and levels of serum iron, serum ferritin, reticulocyte hemoglobin, and blood hemoglobin ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA