

Product Data Sheet

Product Name: Iron sucrose

Cat. No.: GC39600

Chemical Properties

Cas. No. 8047-67-4

SMILES [Iron sucrose]

Formula $C_{18}H_{24}Fe_2O_{24}$ M.Wt 736.06

Solubility DMSO : 100mg/mL; Water : 100mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Iron sucrose

Background

Iron sucrose (Iron saccharate) is a intravenous iron preparation and a pro-oxidant agent. Iron sucrose

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

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has the potential for iron deficiency anemia treatment[1][2][3][4].

[1]. Kristiyana Kaneva, et al. Intravenous Iron Sucrose for Children With Iron Deficiency Anemia. J Pediatr Hematol Oncol. 2017 Jul;39(5):e259-e262. [2]. Kristin E Brandt, et al. Augmentation of Intracellular Iron Using Iron Sucrose Enhances the Toxicity of Pharmacological Ascorbate in Colon Cancer Cells. Redox Biol. 2018 Apr;14:82-87. [3]. Ko-Lin Kuo, et al. Iron Sucrose Accelerates Early Atherogenesis by Increasing Superoxide Production and Upregulating Adhesion Molecules in CKD. J Am Soc Nephrol. 2014 Nov;25(11):2596-606. [4]. Richard A Zager, et al. Combined Iron Sucrose and Protoporphyrin Treatment Protects Against Ischemic and Toxin-Mediated Acute Renal Failure. Kidney Int. 2016 Jul;90(1):67-76.

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