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Ferumoxytol

National Cancer Institute

Source

National Cancer Institute. *Ferumoxytol*. NCI Thesaurus. Code C87701.

A superparamagnetic iron oxide nanoparticle coated with a low molecular weight semi-synthetic carbohydrate, polyglucose sorbitol carboxymethyl ether, with potential anti-anemic and imaging properties. After intravenous administration, ferumoxytol replaces iron stores with fewer side effects compared to the use of oral iron. In addition, this agent generates T1 relaxation, producing a magnetic field and enhancing T2 relaxation, thereby darkening contrast media-containing structures in magnetic resonance imaging (MRI). Due to small particle size, ferumoxytol remains in the intravasculture for a prolonged period and so may be used as a blood pool agent.