Iron dextran

Cat. No.: HY-107928

CAS No.: 9004-66-4

Target: Others

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month

Iron dextran

SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 50 mg/mL

* "≥" means soluble, but saturation unknown.

BIOLOGICAL ACTIVITY

Description

Iron dextran (Fe dextran) can be used in the study of iron-deficiency anemia in animals[1][2].

In Vivo

Iron dextran (FeDex, IP, 4 weeks, 300 μL of 10 mg) treatment does not increase NSR iron but causes iron-trapping in the tetinal vasculature[1].

Four weeks of IP FeDex injection in 2-month-old WT mice leads to iron accumulation in the RPE and rVECs, but did not increase NSR iron or induce photoreceptor degeneration[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wild-type (WT) and RS-HepcKO mice[1].
Dosage:	IP.
Administration:	300 μL of 10 mg daily for 5 days each week for 2 or 4 weeks.
Result:	Markedly elevated iron levels in 2 and 4 weeks of FeDex-injection groups, by 365.4-fold and 405.4-fold, respectively, compared with PBS controls.

REFERENCES

[1]. Wanting Shu, et al. Iron Accumulates in Retinal Vascular Endothelial Cells But Has Minimal Retinal Penetration After IP Iron Dextran Injection in Mice. Invest Ophthalmol Vis Sci. 2019 Oct 1;60(13):4378-4387.

[2]. D. R. ZIMMERMAN, et al. INJECTABLE IRON-DEXTRAN AND SEVERAL ORAL IRON TREATMENTS FOR THE PREVENTION OF IRONDEFICIENCY ANEMIA OF BABY PIGS x. Journal of Animal Science, Volume 18, Issue 4, November 1959, Pages 1409–1415.

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

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