



# SZABO SCANDIC

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- Expressversand

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## Iron dextran

|                  |            |       |          |
|------------------|------------|-------|----------|
| <b>Cat. No.:</b> | HY-107928  |       |          |
| <b>CAS No.:</b>  | 9004-66-4  |       |          |
| <b>Target:</b>   | Others     |       |          |
| <b>Pathway:</b>  | Others     |       |          |
| <b>Storage:</b>  | Pure form  | -20°C | 3 years  |
|                  |            | 4°C   | 2 years  |
|                  | In solvent | -80°C | 6 months |
|                  |            | -20°C | 1 month  |

# Iron dextran

### SOLVENT & SOLUBILITY

|                 |   |
|-----------------|---|
| <b>In Vitro</b> | H <sub>2</sub> O : ≥ 50 mg/mL<br>* "≥" means soluble, but saturation unknown. |
|-----------------|---|

### BIOLOGICAL ACTIVITY

|                    |  |               |  |         |     |                 |  |         |   |
|--------------------|--|---------------|--|---------|-----|-----------------|--|---------|---|
| <b>Description</b> | Iron dextran (Fe dextran) can be used in the study of iron-deficiency anemia in animals <sup>[1][2]</sup> .  |               |  |         |     |                 |  |         |   |
| <b>In Vivo</b>     | <p>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<sup>[1]</sup>.</p> <p>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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Wild-type (WT) and RS-HepcKO mice<sup>[1]</sup>.</td> </tr> <tr> <td>Dosage:</td> <td>IP.</td> </tr> <tr> <td>Administration:</td> <td>300 μL of 10 mg daily for 5 days each week for 2 or 4 weeks.</td> </tr> <tr> <td>Result:</td> <td>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.</td> </tr> </table> | Animal Model: | Wild-type (WT) and RS-HepcKO mice <sup>[1]</sup> . | 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. |
| Animal Model:      | Wild-type (WT) and RS-HepcKO mice <sup>[1]</sup> .   |               |  |         |     |                 |  |         |   |
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| 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.

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

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