

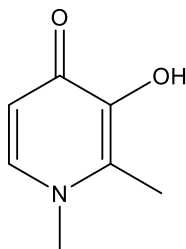
Catalog # 10-4950

Deferiprone

CAS# 30652-11-0

3-Hydroxy-1,2-dimethylpyrid-4-one; Ferriprox

Lot # FBS2046



Deferiprone is a clinically useful iron chelator.¹ It attenuated blood-brain-barrier breakdown and brain mitochondrial dysfunction in rats with chronic iron-overload.² Iron chelation therapy has been suggested as a possible therapy for Alzheimer's Disease.³ Induces PINK1/Parkin-independent mitophagy.⁴

- 1) Hider and Hoffbrand (2018), *The Role of Deferiprone in Iron Chelation*; N. Engl. J. Med., **379** 2140
- 2) Sripetchwande *et al.* (2016), *A combination of an iron chelator with an antioxidant effectively diminishes the dendritic loss, tau-hyperphosphorylation, amyloids- β accumulation and brain mitochondrial dynamic disruption in rats with chronic iron-overload.*, Neuroscience **332** 191
- 3) Liu *et al.* (2018), *Iron and Alzheimer's Disease: From Pathogenesis to Therapeutic Implications*; Front. Neurosci, **12** 632
- 4) Allen *et al.* (2013), *Loss of iron triggers PINK1/Parkin-independent mitophagy*; EMBO Rep., **14** 1127

PHYSICAL DATA

Molecular Weight:	139.15
Molecular Formula:	C ₇ H ₉ NO ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Water (5 mg/mL with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Make solutions fresh daily.

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