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- Trockeneiszuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

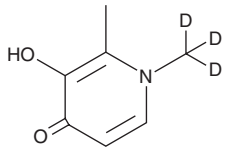
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Deferiprone-d_3

Item No. 28702

CAS Registry No.: 1346601-82-8
Formal Name: 3-hydroxy-2-methyl-1-(methyl-d_3)-4(1H)-pyridinone
MF: $C_7H_6D_3NO_2$
FW: 142.2
Chemical Purity: ≥98% (Deferiprone)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Deferiprone-d_3 is intended for use as an internal standard for the quantification of deferiprone (Item No. 20387) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Deferiprone-d_3 is supplied as a solid. A stock solution may be made by dissolving the deferiprone-d_3 in the solvent of choice, which should be purged with an inert gas. Deferiprone-d_3 is soluble in DMSO.

Description

Deferiprone is an iron chelator that binds to iron in a 3:1 (ligand:iron) ratio and has antioxidant and neuroprotective activities.[1] It reduces levels of intracellular iron and inhibits lipid peroxidation in primary rat hepatocytes when used at concentrations of 200 and 50 µM, respectively.[2] Deferiprone reduces cholesterol diet-induced increases in the levels of amyloid-β (1-42) (Aβ42), Aβ40, and the phosphorylation of tau and glycogen synthase kinase 3β (GSK3β) in the rabbit hippocampus when administered at a dose of 50 mg/kg.[3] Formulations containing deferiprone have been used in the treatment of thalassemia.

References

1. Barnabé, N., Zastre, J.A., Venkataram, S., *et al.* Deferiprone protects against doxorubicin-induced myocyte cytotoxicity. *Free Radic. Biol. Med.* **33(2),** 266-275 (2002).
2. Morel, I., Cillard, J., Lescoat, G., *et al.* Antioxidant and free radical scavenging activities of the iron chelators pyoverdin and hydroxypyrid-4-ones in iron-loaded hepatocyte cultures: Comparison of their mechanism of protection with that of desferrioxamine. *Free Radic. Biol. Med.* **13(5),** 499-508 (1992).
3. Prasanthi, J.R., Schrag, M., Dasari, B., *et al.* Deferiprone reduces amyloid-β and tau phosphorylation levels but not reactive oxygen species generation in hippocampus of rabbits fed a cholesterol-enriched diet. *J. Alzheimers Dis.* **30(1),** 167-182 (2012).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM