

Produktinformation



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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 in



PRODUCT INFORMATION



Chlorzoxazone-d₂

Item No. 34237

CAS Registry No.: 1185173-60-7

Formal Name: 5-chloro-2(3H)-benzoxazolone-4,6,7-d₃

C7HCID3NO2 MF: FW:

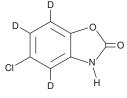
Chemical Purity: ≥98% (Chlorzoxazone)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₃); \leq 1% d₀

Supplied as: A solid -20°C Storage: Stability: ≥2 years

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



Laboratory Procedures

Chlorzoxazone-d2 is intended for use as an internal standard for the quantification of chlorzoxazone (Item No. 18869) 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).

Chlorzoxazone-d₃ is supplied as a solid. A stock solution may be made by dissolving the chlorzoxazone-d₃ in the solvent of choice, which should be purged with an inert gas. Chlorzoxazone-d₃ is soluble in organic solvents such as methanol, DMSO, and acetonitrile.

Description

Chlorzoxazone is a centrally acting muscle relaxant and an activator of small and intermediate conductance calcium-activated potassium channels (EC₅₀s = 87 and 98 μ M for K_{Ca}2.2 and K_{Ca}3.1, respectively).^{1,2} In vivo, chlorzoxazone (10 mg/kg) decreases alcohol, but not water, intake in a dose-dependent manner and reduces the propensity for rapid initial alcohol intake in rats with intermittent, but not continuous, access to alcohol.³ Formulations containing chlorzoxazone have been used in the treatment of pain and stiffness caused by muscle spasm.

References

- 1. Pedarzani, P. and Stocker, M. Molecular and cellular basis of small- and intermediate-conductance, calcium-activated potassium channel function in the brain. Cell. Mol. Life Sci. 65(20), 3196-3217 (2008).
- Gao, Z., Todorov, B., Barrett, C.F., et al. Cerebellar ataxia by enhanced Ca_v2.1 currents is alleviated by Ca²⁺-dependent K⁺-channel activators in Cacna1a^{S218L} mutant mice. J. Neurosci. 32(44), 15533-15546 (2012).
- 3. Hopf, F.W., Simms, J.A., Chang, S.-J., et al. Chlorzoxazone, an SK-type potassium channel activator used in humans, reduces excessive alcohol intake in rats. Biol. Psychiatry 69(7), 618-624 (2011).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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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