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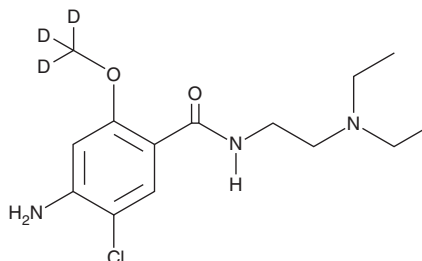
PRODUCT INFORMATION



Metoclopramide-d₃

Item No. 28885

CAS Registry No.: 1216522-89-2
Formal Name: 4-amino-5-chloro-N-(2-(diethylamino)ethyl)-2-(methoxy-d₃)benzamide
MF: C₁₄H₁₉ClD₃N₃O₂
FW: 302.8
Chemical Purity: ≥98% (Metoclopramide)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
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

Metoclopramide-d₃ is intended for use as an internal standard for the quantification of metoclopramide (Item No. 23360) 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).

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

Description

Metoclopramide is an orally bioavailable serotonin (5-HT) receptor 5-HT₃ antagonist with K_i and IC₅₀ values of 995 and 308 nM, respectively, in rat cortical membranes.^{1,2} It is also a dopamine D₂ receptor antagonist (IC₅₀ = 483 nM in rat brain synaptic membranes).² Oral administration of metoclopramide inhibits emesis induced by cisplatin (Item No. 13119) and apomorphine (Item No. 16094) in ferrets and dogs with ED₅₀ values of 6.17 and 0.45 mg/kg, respectively.^{1,2} Metoclopramide reversibly inhibits human acetylcholinesterase (AChE) isolated from the caudate nucleus (K_is = 9.3 and 82 μM for competitive and non-competitive inhibition, respectively).³ Formulations containing metoclopramide have been used as anti-emetic and antipsychotic agents.^{4,5}

References

1. Youssefyeh, R.D., Campbell, H.F., Klein, S., et al. *J. Med. Chem.* **35**(5), 895-903 (1992).
2. Hirokawa, Y., Harada, H., Yoshikawa, T., et al. *Chem. Pharm. Bull. (Tokyo)* **50**(7), 941-959 (2002).
3. Chemnitiu, J.M., Haselmeyer, K.H., Gonska, B.D., et al. *Pharmacol. Res.* **34**(1-2), 65-72 (1996).
4. Harrington, R.A., Hamilton, C.W., Brogden, R.N., et al. *Drugs* **25**(5), 451-494 (1983).
5. Altar, C.A., Boyar, W.C., Wasley, A., et al. *Naunyn Schmiedebergs Arch. Pharmacol.* **338**(2), 162-168 (1988).

WARNING

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

SAFETY DATA

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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