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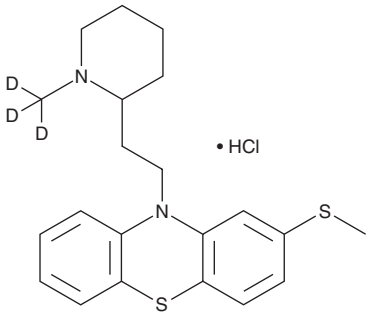
PRODUCT INFORMATION

Thioridazine-d_3 (hydrochloride)

Item No. 30239

CAS Registry No.: 1189928-36-6
Formal Name: 10-(2-(1-(methyl-d_3)piperidin-2-yl) ethyl)-2-(methylthio)-10H-phenothiazine, monohydrochloride
Synonym: Aldazine-d_3
MF: $C_{21}H_{23}D_3N_2S_2 \bullet HCl$
FW: 410.1
Chemical Purity: ≥98% (Thioridazine)
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

Thioridazine-d_3 (hydrochloride) is intended for use as an internal standard for the quantification of thioridazine (Item No. 14400) 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).

Thioridazine-d_3 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the thioridazine-d_3 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Thioridazine-d_3 (hydrochloride) is slightly soluble in methanol.

Description

Thioridazine is a typical antipsychotic.[1] It binds to dopamine D_2, histamine H_1, M_3 muscarinic, and α_1- and α_2-adrenergic receptors (K_is = 5-341.3 nM), as well as the serotonin (5-HT) receptor subtypes 5-HT_{1A}, 5-HT_{2A}, 5-HT_{2C}, 5-HT_6, and 5-HT_7 (K_is = 10-180.7 nM). Thioridazine (5 mg/kg) reduces amphetamine-induced repetitive head bobbing and oral behavior in rats.[2] It reduces conditioned fear stress-induced freezing behavior in rats when administered at doses ranging from 3 to 100 mg/kg.[3] Thioridazine is also active against multidrug-resistant tuberculosis *in vitro* and *in vivo*.[4]

References

1. Kroeze, W.K., Hufeisen, S.J., Popadak, B.A., *et al.* H1-histamine receptor affinity predicts short-term weight gain for typical and atypical antipsychotic drugs. *Neuropsychopharmacology* **28(3)**, 519-526 (2003).
2. Tschanz, J.T. and Rebec, G.V. Atypical antipsychotic drugs block selective components of amphetamine-induced stereotypy. *Pharmacol. Biochem. Behav.* **31(3)**, 519-522 (1988).
3. Ishida-Tokuda, K., Ohno, Y., Sakamoto, H., *et al.* Evaluation of perospirone (SM-9018), a novel serotonin-2 and dopamine-2 receptor antagonist, and other antipsychotics in the conditioned fear stress-induced freezing behavior model in rats. *Jpn. J. Pharmacol.* **72(2)**, 119-126 (1996).
4. Amaral, L. Thioridazine: An old neuroleptic effective against totally drug resistant tuberculosis. *Acta Med. Port.* **25(2)**, 118-121 (2012).

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