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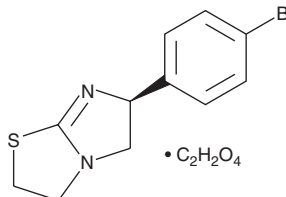
PRODUCT INFORMATION



L-*p*-Bromotetramisole (oxalate)

Item No. 18713

CAS Registry No.: 62284-79-1
Formal Name: (6*S*)-6-(4-bromophenyl)-2,3,5,6-tetrahydroimidazo[2,1-*b*]thiazole, monoethanedioate
Synonyms: (-)-*p*-Bromotetramisole, L-*para*-Bromotetramisole
MF: C₁₁H₁₁BrN₂S • C₂H₂O₄
FW: 373.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 225, 228 nm



Laboratory Procedures

For long term storage, we suggest that L-*p*-bromotetramisole (oxalate) be stored as supplied at -20°C. It should be stable for at least two years.

L-*p*-Bromotetramisole (oxalate) is supplied as a crystalline solid. A stock solution may be made by dissolving the L-*p*-bromotetramisole (oxalate) in the solvent of choice. L-*p*-Bromotetramisole (oxalate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of L-*p*-bromotetramisole (oxalate) in these solvents is approximately 1, 20, and 30 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of L-*p*-bromotetramisole (oxalate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of L-*p*-bromotetramisole (oxalate) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Four distinct human isoenzymes of alkaline phosphatase (AP) are known: intestinal (IAP), placental (PLAP), tissue non-specific (NSAP, also known as liver/bone/kidney AP), and germ cell AP (also known as placental-like AP, PLAP-like).¹ L-*p*-Bromotetramisole is a cell-permeable inhibitor of all four human AP isoenzymes (K_s = 18 and 56 μM for PLAP and NSAP, respectively).¹⁻⁴ While PLAP is strongly inhibited by L-*p*-bromotetramisole, a second AP, possibly PLAP-like, shows only partial inhibition.³ L-*p*-Bromotetramisole has been shown to inhibit a tyrosine phosphatase from *Drosophila* and, as a result, is also used as a tyrosine phosphatase inhibitor.^{5,6}

References

1. Denier, C.C., Brisson-Lougarre, A.A., Biasini, G.G., *et al.* *BMC Biochem.* **3:2**, (2002).
2. Van Belle, H., De Broe, M.E., and Wieme, R.J. *Clin. Chem.* **23(3)**, 454-459 (1977).
3. Sakiyama, T., Robinson, J.C., and Chou, J.Y. *J. Biol. Chem.* **254(3)**, 935-938 (1979).
4. Doellgast, G.J. and Meis, P.J. *Clin. Chem.* **25(7)**, 1230-1233 (1979).
5. Fukami, Y. and Lipmann, F. *Proc. Natl. Acad. Sci. USA* **79(14)**, 4275-4279 (1982).
6. Yingst, D.R., Davis, J., and Schiebinger, R. *Eur. J. Pharmacol.* **461(1)**, 49-52 (2000).

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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