

Product Data Sheet

Product Name: Aripiprazole N-oxide

Cat. No.: GC52024

Chemical Properties

Cas. No. 573691-09-5

SMILES O=C1NC2=CC(OCCCC[N]3(CCN(CC3)C4=C(Cl)C(Cl)=CC=C4)=O)=CC=C2CC1

Formula C₂₃H₂₇Cl₂N₃O₃

M.Wt 464.4

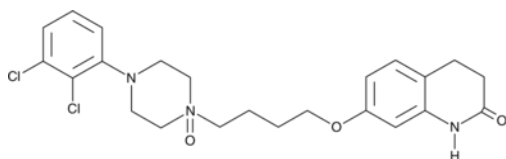
Solubility DMSO: soluble

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Aripiprazole N-oxide is a metabolite of the atypical antipsychotic aripiprazole.^{1,2} It is formed from aripiprazole by the cytochrome P450 (CYP) isoforms CYP2D6 and CYP3A4.³ Aripiprazole N-oxide is a potential impurity found in commercial preparations of aripiprazole.¹

1. Filijovic, N.D., Pavlovi?, A., Nikolic, K., et al. Validation of an HPLC method for determination of aripiprazole and its impurities in pharmaceuticals. *Acta Chromatogr.* 26(1)13-28(2014)

2. Satyanarayana, B., Sumalatha, Y., Kumar, S.S., et al. Synthesis and characterization of N-oxides and metabolites of antipsychotic drug, aripiprazole. *Heterocycl. Commun.* 11(6)485-490(2005)

3. Kubo, M., Koue, T., Inaba, A., et al. Influence of itraconazole co-administration and CYP2D6 genotype on the pharmacokinetics of the new antipsychotic ARIPIPRAZOLE. *Drug Metab. Pharmacokinet.* 20(1)55-64(2005)

Caution: Product has not been fully validated for medical applications. For research use only.

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