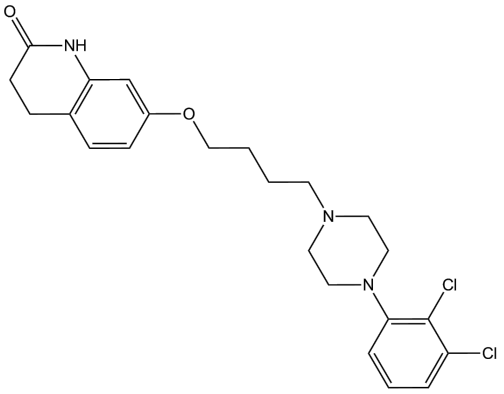
Product Data Sheet

Product Name: Aripiprazole
Cat. No.: GC10117

Chemical Properties

Cas. No.	129722-12-9		
Chemical Name	7-[4-[4-(2,3-dichlorophenyl)piperazin-1-yl]butoxy]-3,4-dihydro-1H-quinolin-2-one		
SMILES	C1CC(=O)NC2=C1C=CC(=C2)OCCCCN3CCN(CC3)C4=C(C(=CC=C4)Cl)Cl		
Formula	C23H27Cl2N3O2	M.Wt	448.39
Solubility	≥ 22.4mg/mL in DMSO	Storage	Store at 2-8°C, protect from light
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 is a novel and atypical antipsychotic [1].

Aripiprazole has been found to be a dopamine-serotonin system stabilizer with potent partial agonist activity at dopamine D2 and 5-HT1A receptors and antagonist activity at 5-HT2A receptors. In addition, aripiprazole has been reported to label with the agonist [125I]7-OH-PIPAT and with the antagonist [3H]spiperone with 0.34±0.02nM and 0.70±0.22nM, respectively. Besides, aripiprazole has been revealed to dose-dependently and potently inhibit the increase in cAMP accumulation

stimulated by forskolin in CHO cells and HEK-293 cells. Other results have also been reported that aripiprazole completely inhibited the increase GTPase activity stimulated by the D2 receptor agonist quinpirole in rat striatal membranes [1].

References:

[1] Burris KD1, Molski TF, Xu C, Ryan E, Tottori K, Kikuchi T, Yocca FD, Molinoff PB. Aripiprazole, a novel antipsychotic, is a high-affinity partial agonist at human dopamine D2 receptors. J Pharmacol Exp Ther. 2002 Jul; 302(1):381-9.