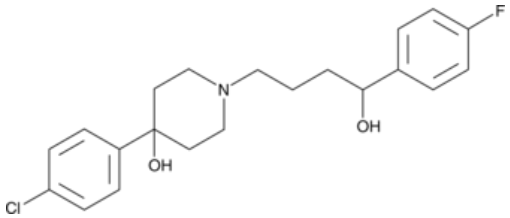
Product Data Sheet

Product Name: Reduced Haloperidol
Cat. No.: GC44810

Chemical Properties

Cas. No.	34104-67-1		
SMILES	OC1(CCN(CCCC(C2=CC=C(F)C=C2)O)CC1)C3=CC=C(Cl)C=C3		
Formula	C21H25ClFNO2	M.Wt	377.9
Solubility	Dichloromethane: slightly soluble,Methanol: slightly soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Reduced haloperidol is an active metabolite of haloperidol . It is formed via reduction of haloperidol by ketone reductase. Reduced haloperidol inhibits radioligand binding to sigma-1 and dopamine D2 receptors (Kis = 1.4 and 31 nM, respectively) and stimulates brain-derived neurotrophic factor (BDNF) secretion from CCF-SSTG1 and U87MG astrocytic glial cells. It also inhibits norepinephrine, dopamine, and serotonin (5-HT) reuptake (Kis = 21, 25, and 33 μM, respectively, in COS-7 cells expressing the human transporters). Reduced haloperidol (0.5 mg/kg) increases latency to paw withdrawal in mouse models of capsaicin- but not force-induced mechanical hypersensitivity.

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