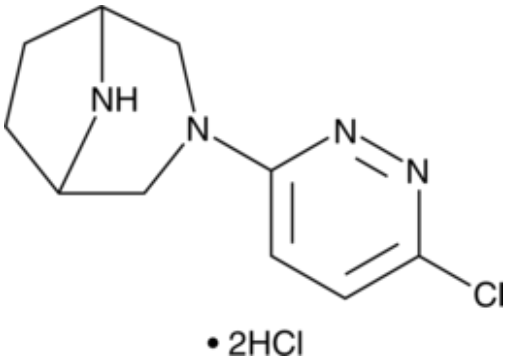
Product Data Sheet

Product Name: DBO-83
Cat. No.: GC43383

Chemical Properties

Cas. No.	195211-53-1		
SMILES	ClC1=CC=C(N2CC(N3)CCC3C2)N=N1.Cl.Cl		
Formula	C10H13ClN4•2HCl	M.Wt	297.6
Solubility	Water: 38 mg/ml	Storage	Store at -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

DBO-83 is an agonist of nicotinic acetylcholine receptors (nAChRs) with antinociceptive and anti-amnesic activities. It binds to nAChRs in rat cortical membranes with a Ki value of 4.1 nM in a radioligand binding assay with the α4β2 nAChR partial agonist and α7 nAChR agonist [3H]cytisine. DBO-83 dose-dependently increases the latency to paw licking in mice in the hot plate test and reduces the number of abdominal constrictions in mice in the acetic acid abdominal constriction test, effects that can be reduced by the nAChR antagonist mecamylamine . DBO-83 also dose-dependently prevents amnesia induced by mecamylamine, the muscarinic receptor antagonist scopolamine, and the nAChR antagonist dihydro-β-erythroidine in mice in the passive avoidance test.

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