Product Name	:	SKF-83566
Synonyms	:	——
Cat No.	:	M22547
CAS Number	:	99295-33-7
Molecular Formula	:	C17H18BrNO
Formula Weight	:	332.23
Chemical Name	:	——
Description	:	SKF-83566 is a blood-brain permeable and orally active antagonist of D1-like dopamine receptor and a weaker competitive 5-HT2 receptor antagonist with Ki of 11 nMSKF-83566 caused a concentration-dependent increase in peak single-pulse evoked extracellular DA concentration, with a maximum increase of 65% in 5 μM SKF-83566.?This was accompanied by a concentration-dependent increase in extracellular DA concentration clearance time.?Both effects were occluded by nomifensine (1 μM), a dopamine transporter (DAT) inhibitor, suggesting that SKF-83566 acted via the DAT.?Tested this by examining [(3)H]DA uptake into LLc-PK cells expressing rat DAT, and confirmed that SKF-83566 is a competitive DAT inhibitor with an IC(50) of 5.7 μM.?Binding studies with [(3)H]CFT, a cocaine analog, showed even more potent action of SKF-83566 at the DAT cocaine binding site (IC(50) = 0.51 μM).?The facilitation induced by nicotine and cocaine can be blocked by oral administration of the dopamine D1/D5 receptor antagonist (SKF 83566).
Pathway	:	GPCR/G Protein
Target	:	Dopamine Receptor
Receptor	:	D1;D5;5-HT2
Solubility	:	——
SMILES	:	CN1CCc2cc(Br)c(O)cc2C(C1)c1ccccc1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Melissa A Stouffer, et al. SKF-83566, a D1-dopamine Receptor Antagonist, Inhibits the Dopamine Transporter. J Neurochem. 2011 Sep;118(5):714-20.