Product Name	:	FG 7142
Synonyms	:	ZK 39106,LSU-65
Cat No.	:	M22444
CAS Number	:	78538-74-6
Molecular Formula	:	C13H11N3O
Formula Weight	:	225.25
Chemical Name	:	——
Description	:	FG 7142?also modulates GABA-induced chloride flux at GABAA receptors expressing the α1 subunit (EC50= 137 nM).?FG 7142?can increase tyrosine hydroxylation and cause upregulation of β-adrenoceptors in mouse cerebral cortex.?FG 7142 , a non-selectively benzodiazepine inverse agonist, has high affinity for the α1 subunit-containing GABAA receptor (Ki=91 nM).?FG-7142 has a high efficacy in modulating GABA-induced chloride flux at GABAA receptors expressing the α1 subunit (EC50 = 137 nM) as compared to the other α subunits.FG-7142 has affinity for those expressing the α subunit, the Ki values are 91 nM; 330 nM; 492 nM and 2.150 μM for α1, α2,α3 and α5 subunits, respectively.?FG-7142 (intraperitoneal injection;?15 mg/kg) increases tyrosine hydroxylase activity and dopamine turnover in the medial prefrontal cortex and ventral tegmentum in vivo, but effects are not detected in mesolimbic or nigrostriatal areas.FG-7142 (intraperitoneal injection; 15-30 mg/kg) activates mesolimbocortical dopaminergic projections, leading to increases in dopamine in the prefrontal cortex and the nucleus accumbens in rats.
Pathway	:	Others
Target	:	Other Targets
Receptor	:	GABAA receptor
Solubility	:	——
SMILES	:	CNC(=O)c1cc2c(cn1)[nH]c1ccccc21
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Cottone P, et al. FG 7142 specifically reduces meal size and the rate and regularity of sustained feeding in female rats: evidence that benzodiazepine inverse agonists reduce food palatability.Neuropsychopharmacology. 2007 May;32(5):1069-81. Epub 2006 Nov 1.