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DATASHEET

Flumazenil

Product overview

Name	Flumazenil
Cat No	HB0915
Alternative names	Ro 15-1788
Biological action	Antagonist
Purity	>99%
Description	$GABA_A$ receptor antagonist

Images

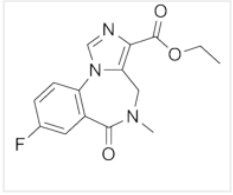
Biological Data

Biological description	$GABA_A$ receptor antagonist, non-selective for α1, α2, α3 or α5 subunits. Binds at the benzodiazepine site. Used as a reversal agent for benzodiazepines. Reverses tolerance to benzodiazepines and restores the neuroprotective actions of diazepam in ischemia models.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in DMSO (25mM, gentle warming) or ethanol (5mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	8-Fluoro-5,6-dihydro-5-methyl-6-oxo -4*H*-imidazo[1,5-*a*][1,4]benzodiazepine-3-carboxylic acid, ethyl ester
Molecular Weight	303.29
Chemical structure	

Molecular Formula	$C_{15}H_{14}FN_3O_3$
CAS Number	78755-81-4
PubChem identifier	3373
SMILES	CCOC(=O)C1=C2CN(C)C(=O)C3=CC(F)=CC=C3N2C=N1
InChiKey	OFBIFZUFASYYRE-UHFFFAOYSA-N

References

Regional differences in the inhibition of mouse in vivo [3H]Ro 15-1788 binding reflect selectivity for alpha 1 versus alpha 2 and alpha 3 subunit-containing GABAA receptors.

Atack JR *et al* (1999) Neuropsychopharmacology 20(3)
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Effects of diazepam and flumazenil on forebrain ischaemia in a rat model of benzodiazepine tolerance.

Iwata M *et al* (2012) Br J Anaesth 109(6)
PubMedID 23043146

Rapid and reliable sedation induced by diazepam and antagonized by flumazenil in zebra finches (Taeniopygia guttata).

Prather JF (2012) J Avian Med Surg 26(2)
PubMedID 22872979