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## DATASHEET

Flumazenil

### Product overview

<b>Name</b>	Flumazenil
<b>Cat No</b>	HB0915
<b>Alternative names</b>	Ro 15-1788
<b>Biological action</b>	Antagonist
<b>Purity</b>	>99%
<b>Description</b>	GABA <sub>A</sub> receptor antagonist

### Images



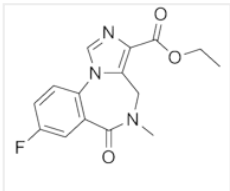
### Biological Data

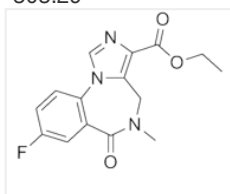
<b>Biological description</b>	GABA <sub>A</sub> receptor antagonist, non-selective for $\alpha 1$ , $\alpha 2$ , $\alpha 3$ or $\alpha 5$ subunits. Binds at the benzodiazepine site. Used as a reversal agent for benzodiazepines. Reverses tolerance to benzodiazepines and restores the neuroprotective actions of diazepam in ischemia models.
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### Solubility & Handling

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

### Chemical Data

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



<b>Molecular Formula</b>	C <sub>15</sub> H <sub>14</sub> FN <sub>3</sub> O <sub>3</sub>
<b>CAS Number</b>	78755-81-4
<b>PubChem identifier</b>	3373
<b>SMILES</b>	CCOC(=O)C1=C2CN(C)C(=O)C3=CC(F)=CC=C3N2C=N1
<b>InChIKey</b>	OFBIFZUFASYRE-UHFFFAOYSA-N

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## 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)

**PubMedID** [10063485](#)

### 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](#)

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