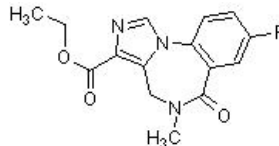


## Product datasheet

# Flumazenil, Benzodiazepine antagonist ab120242

[3 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Flumazenil, Benzodiazepine antagonist
<b>Description</b>	Benzodiazepine antagonist
<b>Biological description</b>	Selective non-competitive benzodiazepine antagonist with low affinity for $\alpha 4$ - and $\alpha 6$ -subunits
<b>Purity</b>	> 99%
<b>CAS Number</b>	78755-81-4
<b>Chemical structure</b>	

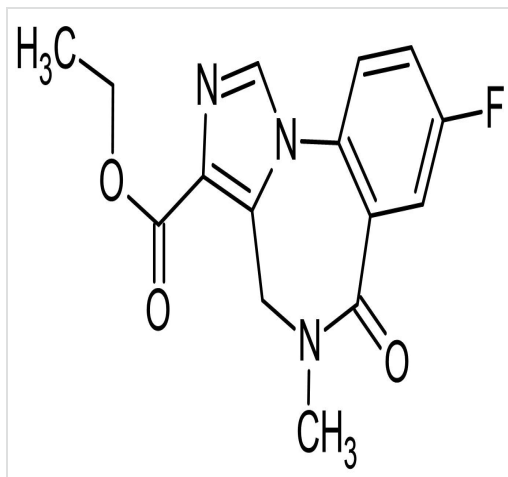
### Properties

<b>Chemical name</b>	8-Fluoro-5,6-dihydro-5-methyl-6-oxo-4 <i>H</i> -imidazo[1,5- <i>a</i> ][1,4]benzodiazepine-3-carboxylic acid ethyl ester
<b>Molecular weight</b>	303.29
<b>Molecular formula</b>	C <sub>15</sub> H <sub>14</sub> FN <sub>3</sub> O <sub>3</sub>
<b>PubChem identifier</b>	3373
<b>Storage instructions</b>	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 25 mM and in ethanol to 5 mM
<b>Handling</b>	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>SMILES</b>	<chem>O=C(OCC)c3ncn2c3CN(C)C(=O)c1cc(F)ccc12</chem>

Source

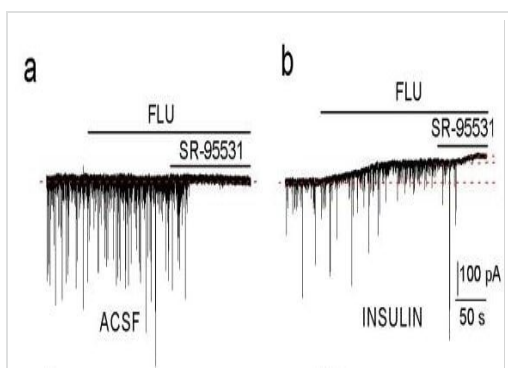
Synthetic

## Images



2D chemical structure image of ab120242, Flumazenil, Benzodiazepine antagonist

Chemical Structure - Flumazenil, Benzodiazepine antagonist (ab120242)



### Inhibition of insulin (1 nM) induced tonic current by flumazenil and zolpidem.

Effects of flumazenil (1  $\mu$ M) on the currents in an ACSF (a) and an insulin treated neuron (b).

(From Figure 2A of Jin et al).

Functional Studies - Flumazenil, Benzodiazepine antagonist (ab120242)

Jin et al PLoS One. 2011; 6(1): e16188. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

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