

Product Name: Ro 15-4513

Catalog No.: 1997

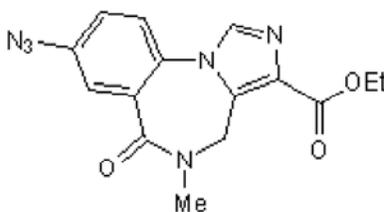
Batch No.: 5

CAS Number: 91917-65-6

IUPAC Name: 8-Azido-5,6-dihydro-5-methyl-6-oxo-4*H*-imidazo[1,5-*a*][1,4]benzodiazepine-3-carboxylic acid ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₄N₆O₃
Batch Molecular Weight: 326.31
Physical Appearance: Yellow solid
Solubility: ethanol to 5 mM
DMSO to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.21	4.32	25.75
Found	55.36	4.19	25.42

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

High affinity benzodiazepine ligand. K_i values are 3.1 and 5.3 nM for diazepam-insensitive (DI) and diazepam-sensitive (DS) benzodiazepine receptors respectively. Acts as partial inverse agonist at recombinant DS α_1 -, α_2 -, α_3 - and α_5 -GABA_A receptors. Displays partial agonism at DI α_4 - and α_6 -GABA_A receptors. Antagonizes several behavioral and neurochemical effects of ethanol. Proconvulsant and anxiogenic.

Physical and Chemical Properties:

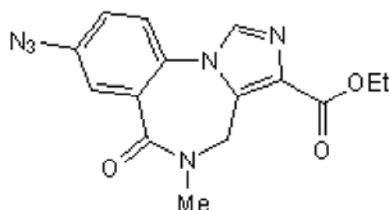
Batch Molecular Formula: C₁₅H₁₄N₆O₃

Batch Molecular Weight: 326.31

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Knoflach et al (1996) Pharmacological modulation of the diazepam-insensitive recombinant gamma-aminobutyric acidA receptors alpha 4 beta 2 gamma 2 and alpha 6 beta 2 gamma 2. *Mol.Pharmacol.* **50** 1253. PMID: 8913357.

Wong and Skolnick (1992) High affinity ligands for 'diazepam-insensitive' benzodiazepine receptors. *Eur.J.Pharmacol.* **225** 63. PMID: 1311690.

Suzdak et al (1986) A selective imidazobenzodiazepine antagonist of ethanol in the rat. *Science* **234** 1243. PMID: 3022383.

Storage: Desiccate at +4°C

Solubility & Usage Info:

ethanol to 5 mM

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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