



Catalog # 10-1081

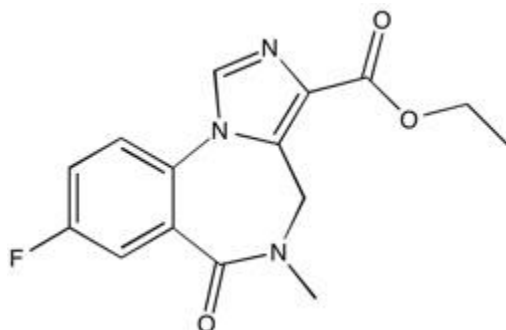
Flumazenil

CAS# 78755-81-4

8-Fluoro-5,6-dihydro-5-methyl-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, ethyl ester

Ro 1722; Ro 15-1788

Lot # X101219



A benzodiazepine antagonist¹, panspecific for α_1 , α_2 , α_3 or α_5 -containing GABA_A receptors². Reduces withdrawal sequelae in benzodiazepine dependence.³ Reverses the toxic effects, including coma and respiratory depression of zolpidem intoxication⁴ and gabapentin-induced coma⁵.

- 1) Möhler *et al.* (1981), *Benzodiazepine antagonist Ro 15-1788; binding characteristics and interaction with drug-induced changes in dopamine turnover and cerebellar cGMP levels*; J. Neurochem., **37** 714
- 2) Doble *et al.* (1999), *New insights into the mechanism of action of hypnotics*; J. Psychopharmacol., **13**(4 Suppl. 1) S11
- 3) Hood *et al.* (2014), *Benzodiazepine dependence and its treatment with low dose flumazenil*; Br. J. Clin. Pharmacol., **77** 285
- 4) Lheureux *et al.* (1990), *Zolpidem intoxication mimicking narcotic overdose: response to flumazenil*; Hum. Exp. Toxicol., **9** 105
- 5) Masciullo *et al.* (2021), *Flumazenil therapy for a gabapentin-induced coma: a case report*; J. Med. Case Rep., **15** 242

PHYSICAL DATA

Molecular Weight: 303.29
Molecular Formula: C₁₅H₁₄FN₃O₃
Purity: 98% by HPLC
NMR: (Conforms)
Solubility: DMSO (up to 8 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
Solutions in DMSO may be stored at -20°C for up to 3 months.

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