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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Flumazenil

Benzodiazepine antagonist
Catalog No. SIH-622



Discovery through Partnership | Excellence through Quality

Product Name

Flumazenil

Description

Benzodiazepine antagonist

Purity

>98% (HPLC); NMR (conforms)

CAS No.

78755-81-4

Molecular Formula

$C_{15}H_{14}FN_3O_3$

Molecular Weight

303.3

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Antagonist

Solubility

May be dissolved in DMSO (8 mg/ml)

Source

Synthetic

Appearance

White powder

SMILES

CCOC(=O)C1=C2CN(C(=O)C3=C(N2C=N1)C=CC(=C3)F)C

InChI

InChI=1S/C15H14FN3O3/c1-3-22-15(21)13-12-7-18(2)14(20)10-6-9(16)4-5-11(10)19(12)8-17-13/h4-6,8H,3,7H2,1-2H3

InChIKey

OFBIFZUFASYRE-UHFFFAOYSA-N

Safety Phrases

Classification: Caution- Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S24/25- Avoid contact with skin and eyes

Cite This Product

Flumazenil (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-622)

Biological Description

Alternative Names

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

Research Areas

GABA Receptors, Neuroscience, Neurotransmission, Neurotransmitter Receptors

PubChem ID

3373

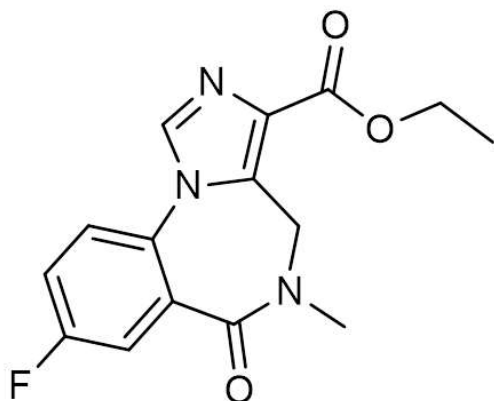
Scientific Background

A benzodiazepine antagonist¹, panspecific for 1, 4, or 5-containing GABAA receptors². Reduces withdrawal sequelae in benzodiazepine dependence³. Reverses the toxic effects, including coma and respiratory depression of zolpidem intoxication⁴ and gabapentin-induced coma⁵.

References

1. Möhler H., et al. (1981) J. Neurochem. 37:714.
 2. Doble A., (1999) J. Psychopharmacol. 13(4 Suppl 1):S11.
 3. Hood SD., et al. (2014) Br. J. Clin. Pharmacol. 77:285.
 4. Lheureux P., et al. (1990) Hum. Exp. Toxicol. 9:105.
 5. Masciullo M., et al. (2021) J. Med. Case Rep. 15:242.
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Product Images



Product Citations

Reviews

There are no reviews yet.