

Product Name: DMCM hydrochloride

Catalog No.: 3083

Batch No.: 4

CAS Number: 1215833-62-7

IUPAC Name: 4-Ethyl-6,7-dimethoxy-9H-pyrido[3,4-b]indole-3-carboxylic acid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈N₂O₄.HCl

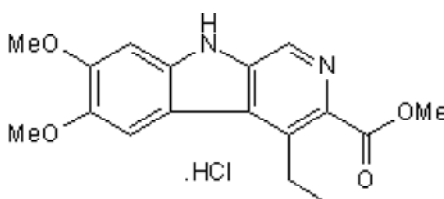
Batch Molecular Weight: 350.8

Physical Appearance: Yellow solid

Solubility: water to 100 mM
DMSO to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.21	5.46	7.99
Found	57.98	5.45	7.92

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

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IUPAC Name: 4-Ethyl-6,7-dimethoxy-9H-pyrido[3,4-b]indole-3-carboxylic acid methyl ester hydrochloride

Description:

Benzodiazepine inverse agonist that displays anxiogenic and potent convulsant activity.

Physical and Chemical Properties:

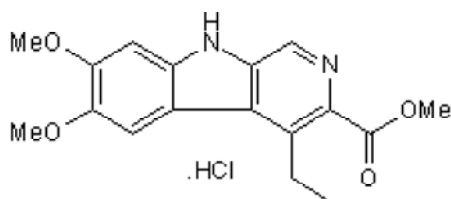
Batch Molecular Formula: C₁₇H₁₈N₂O₄.HCl

Batch Molecular Weight: 350.8

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 20 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.

References:

Conto et al (2005) Behavioral differences between subgroups of rats with high and low threshold to clonic convulsions induced by DMCM, a benzodiazepine inverse agonist. *Pharmacol.Biochem.Behav.* **82** 417. PMID: 16297441.

Sieve et al (2001) Pain and negative affect: evidence the inverse benzodiazepine agonist DMCM inhibits pain and learning in rats. *Psychopharmacol.* **153** 180.

Petersen (1983) DMCM: a potent convulsive benzodiazepine receptor ligand. *Eur.J.Pharmacol.* **94** 117. PMID: 6317396.

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