

Product Name: FG 7142

Catalog No.: 0554

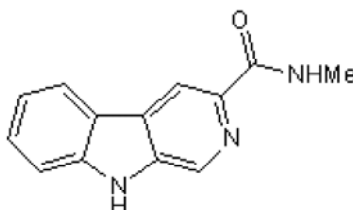
Batch No.: 12

CAS Number: 78538-74-6

IUPAC Name: *N*-Methyl-β-carboline-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁N₃O
Batch Molecular Weight: 225.25
Physical Appearance: Yellow solid
Solubility: 1eq. HCl to 75 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Chloroform:Methanol [9:1])
HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.32	4.92	18.66
Found	68.95	4.98	18.45

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

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Product Name: FG 7142

Catalog No.: 0554

Batch No.: 12

CAS Number: 78538-74-6

IUPAC Name: N-Methyl-β-carboline-3-carboxamide

Description:

FG 7142 is a benzodiazepine inverse agonist and anxiogenic agent. Increases tyrosine hydroxylation and causes upregulation of β-adrenoceptors in mouse cerebral cortex.

Physical and Chemical Properties:

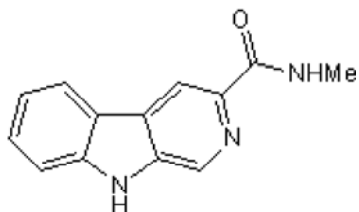
Batch Molecular Formula: C₁₃H₁₁N₃O

Batch Molecular Weight: 225.25

Physical Appearance: Yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. HCl to 75 mM

DMSO to 100 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:

Donner et al (1989) Evidence for an excitatory action of benzodiazepine receptor inverse agonist FG 7142 on C-fibre afferents. *Naunyn Schmiedebergs Arch.Pharmacol.* **340** 352. PMID: 2478895.

Knorr et al (1989) The anxiogenic β-carboline FG-7142 increases *in vivo* and *in vitro* tyrosine hydroxylation in the prefrontal cortex. *Brain Res.* **495** 355. PMID: 2765936.

Wettstei (1989) Behavioural studies with the β-carboline FG 7142 combined with related drugs in monkeys. *Eur.J.Pharmacol.* **163** 219. PMID: 2498110.

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