

Certificate of Analysis

Print Date: Jan 15th 2016 **WWW.tocris.com**

Product Name: Flunitrazepam Catalog No.: 4047 Batch No.: 1

CAS Number: 1622-62-4 EC Number: 216-597-8

IUPAC Name: 5-(2-Fluorophenyl)-1,3-dihydro-1-methyl-7-nitro-2*H*-1,4-benzodiazepin-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{12}FN_3O_3$

Batch Molecular Weight: 313.28
Physical Appearance: White solid

Solubility: ethanol to 10 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity



Product Information

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IUPAC Name: 5-(2-Fluorophenyl)-1,3-dihydro-1-methyl-7-nitro-2H-1,4-benzodiazepin-2-one

Description:

Ligand at the GABA_A receptor benzodiazepine modulatory site. Exhibits hypnotic effects; also displays anxiolytic and sedative properties.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₂FN₃O₃ Batch Molecular Weight: 313.28 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

ethanol 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 3 Home Office controlled substance and customers in the UK are required to hold the relevent licence or be exempt from restrictions in order to purchase and posess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY

This product is a Schedule IV DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY

This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Merck Index 14 4146.

Johnston et al (1998) Flunitrazepam rapidly reduces GABAA receptor subunit protein expression via a protein kinase C-dependent mechanism. Br.J.Pharmacol. 124 1338. PMID: 9723942.

Malanciuc et al (2009) Analytical characterization of flunitrazepam. Farmacia 57 167.

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

Tel: +44 (0)1235 529449