Certificate of Analysis

www.tocris.com

ZD 7288 Product Name:

OCR 1

CAS Number: 133059-99-1

4-Ethylphenylamino-1,2-dimethyl-6-methylaminopyrimidinium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_{15}H_{21}CIN_4.1/_2H_2O$ 301.82 White crystalline solid water to 100 mM DMSO to 100 mM Desiccate at +4°C

Storage: **Batch Molecular Structure:**

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59.91

7.27

18.45

2. ANALYTICAL DATA

TLC: R_f = 0.37 (Dichloromethane:Methanol [9:1]) **Melting Point:** Between 202 - 205°C HPLC: Shows 99.9% purity ¹H NMR: Consistent with structure Microanalysis: Carbon Hydrogen Nitrogen Chlorine Theoretical 59.69 7.35 18.56

Found

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

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Catalog No.: 1000

11.75

12.04

Batch No.: 6

IUPAC Name:

a biotechne

TOCRIS a biotechne brand

Product Information

www.tocris.com

Print Date: Mar 9th 2022

Batch No.: 6

Product Name: ZD 7288

CAS Number: 133059-99-1

IUPAC Name: 4-Ethylphenylamino-1,2-dimethyl-6-methylaminopyrimidinium chloride

Description:

ZD 7288 is a sino-atrial node function modulator; blocks the hyperpolarization activated cation current I_f (HCN channel). Blocks I_h in central neurons. Increases NMDA-evoked noradrenaline release in rat brain in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₂₁ClN₄.½H₂O Batch Molecular Weight: 301.82 Physical Appearance: White crystalline solid

Minimum Purity: ≥99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 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 $45-60^{\circ}C$ water bath).

Catalog No.: 1000

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.

Licensing Information:

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References:

Klar *et al* (2003) Ih channels as modulators of presynaptic terminal function: ZD7288 increases NMDA-evoked [³H]-noradrenaline release in rat neocortex slices. Naunyn Schmiedebergs Arch.Pharmacol. **367** 422. PMID: 12690435.

Green et al (1996) Pharmacological characterization of the inwardly rectifying current in the smooth muscle cells of the rat bladder. Br.J.Pharmacol. **119** 1509. PMID: 8982495.

Harris and Constanti (1995) Mechanism of block by ZD7288 of the hyperpolarization-activated inward rectifying current in guinea-pig substantia nigra neurons *in vitro*. J.Neurophysiol. **74** 2366. PMID: 8747199.

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