Certificate of Analysis

Product Name: PSEM 308 hydrochloride

IUPAC Name:

TOCRIS

biotechne[®]

Name: 5-Methyl-5,8,9,10,11a,12-hexahydro-4H-8,11-ethanopyrido[3',2':3,4]diazepino[6,7,1-hi]indole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Storage: Batch Molecular Structure: C₁₇H₂₁N₃.HCl. 303.83 Off-white solid DMSO to 20 mM ethanol to 20 mM with gentle warming Store at -20°C

HCI

2. ANALYTICAL DATA HPLC:

¹H NMR: Mass Spectrum: Microanalysis: Shows 98.7% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen N	Vitrogen	Chlorine
Theoretical	67.2	7.3	13.83	11.67
Found	66.72	7.34	13.74	11.72

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

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Catalog No.: 6425 Batch No.: 2

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Product Information

www.tocris.com

Print Date: Aug 2nd 2023

Product Name: PSEM 308 hydrochloride

IUPAC Name:

5-Methyl-5,8,9,10,11a,12-hexahydro-4H-8,11-ethanopyrido[3',2':3,4]diazepino[6,7,1-hi]indole hydrochloride

Description:

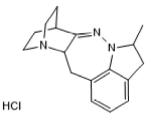
PSEM 308 hydrochloride is a PSAM (pharmacologically selective actuator module) agonist. Activates PSAML141F-GlyR chimeric ion channels. Inhibits activity of neurons expressing PSAML141F-GlyR in vivo and activates locus coeruleus noradrenergic neurons expressing PSAML141F,Y115F-5-HT₃ ion channels. Recommended concentration for use in mice is 5 mg/kg or lower. Plasmid vectors for the transfection of cells with PSAML141F-GlyR and PSAML141F,Y115F-5-HT₃ are available from Addgene. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₁N₃.HCl. Batch Molecular Weight: 303.83 Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM ethanol to 20 mM with gentle warming

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).

Catalog No.: 6425

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.

For scientific research use only. This product may not be used to research, develop, make, use, offer to sell, sell, or import any products for human therapeutic uses.

Hirschberg *et al* (2017) Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats. Elife **6** e29808. PMID: 29027903.

Satoh et al (2016) Context-dependent gait choice elicited by EphA4 mutation in Lbx1 spinal interneurons. Neuron 89 1046. PMID: 26924434.

Atasoy et al (2012) Deconstruction of a neural circuit for hunger. Nature 488 172. PMID: 22801496 .

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