TOCRIS a biotechne brand

Print Date: Dec 17th 2020

Certificate of Analysis

www.tocris.com

Batch No.: 4

Catalog No.: 6426

Product Name: PSEM 89S

CAS Number: 1336913-03-1

IUPAC Name: N-(3S)-1-Azabicyclo[2.2.2]oct-3-yl-2,5-dimethoxybenzamide trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Storage: Batch Molecular Structure: C₁₆H₂₂N₂O₃.CF₃CO₂H 404.38 White solid DMSO to 100 mM water to 100 mM Store at -20°C

MeO. Ы OMe 0 CF₃CO₂H

53.54

5.68

6.81

2. ANALYTICAL DATA

HPLC:	Shows 100% purity			
Chiral HPLC:	Shows 99.5% purity			
¹ H NMR:	Consistent with structure			
Mass Spectrum:	Consistent with structure			
Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical 53.46	5.73	6.93	

Found

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
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Product Information

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Product Name: PSEM 89S

CAS Number: 1336913-03-1

N-(3S)-1-Azabicyclo[2.2.2]oct-3-yl-2,5-dimethoxybenzamide trifluoroacetate

Description:

IUPAC Name:

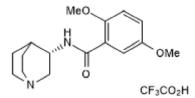
PSAML141F-GlyR and PSAML141F,Y115F-5-HT₃ chimeric ion channel agonist (EC₅₀ values are 3.4 and 2.2 μ M, respectively). Activates cortical neurons expressing PSAML141F,Y115F-5-HT₃ chimeric ion channels and inhibits activity of neurons expressing PSAML141F-GlyR in vitro. Silences hypothalamic AGRP neurons transfected with PSAML141F-GlyR chimeric ion channels in mice in vivo, leading to suppression of feeding. Brain penetrant. Plasmid vectors for the transfection of cells with PSAML141F-GlyR and PSAML141F,Y115F-5-HT₃ are available from Addgene. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{22}N_2O_3.CF_3CO_2H$ Batch Molecular Weight: 404.38 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Cerritelli *et al* (2016) Activation of brainstem pro-opiomelanocortin neurons produces opioidergic analgesia, bradycardia and bradypnoea. PLoS One **11** e0153187. PMID: 27077912.

Magnus et al (2011) Chemical and genetic engineering of selective ion channel-ligand interactions. Science 333 1292. PMID: 21885782.

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Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM water 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).

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:

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.

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