

Product Name: Brivaracetam

Catalog No.: 7271

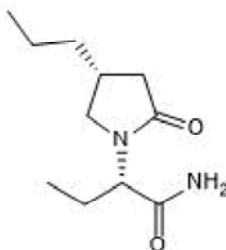
Batch No.: 1

CAS Number: 357336-20-0

IUPAC Name: (αS,4R)-α-Ethyl-2-oxo-4-propyl-1-pyrrolidineacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₂₀N₂O₂
Batch Molecular Weight: 212.29
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -58.1 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.24	9.5	13.2
Found	62.27	9.54	13.28

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

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IUPAC Name: (α S,4R)- α -Ethyl-2-oxo-4-propyl-1-pyrrolidineacetamide

Description:

Brivaracetam is an antiepileptic compound that is a ligand for synaptic vesicle glycoprotein 2A (SV2A; K_d = 50 nM for human SV2A in vitro). Brivaracetam displays selectivity for SV2A at 10 μ M, against a panel of 55 receptors, enzymes, ion channels and transporters. In mice, Brivaracetam protects against clonic audiogenic seizures.

Physical and Chemical Properties:

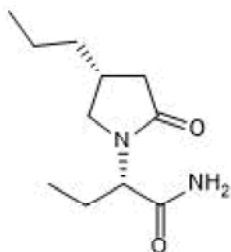
Batch Molecular Formula: C₁₁H₂₀N₂O₂

Batch Molecular Weight: 212.29

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



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°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:

Rogawski (2016) A new SV2A ligand for epilepsy. *Cell*. **167** 587. PMID: 27768878.

Gillard et al (2011) Binding characteristics of brivaracetam, a selective, high affinity SV2A ligand in rat, mouse and human brain: relationship to anti-convulsant properties. *Eur.J.Pharmacol.* **664** 36. PMID: 21575627.

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