

Levetiracetam, Anticonvulsant

Catalog	Unit
TBI2040 - 10MG	10 mg
TBI2040 - 50MG	50 mg

Product Details

Formal Name: 2(S)-(2-Oxopyrrolidin-1-yl)butyramide

Molecular Formula: C₂₉H₁₄N₂O₂

Formula Weight: 170.21

CAS Number: 102767-28-2

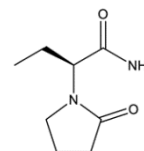
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Anticonvulsant

Functions

Levetiracetam (102767-28-2) is a clinically useful non-classical anticonvulsant. It has no effect on voltage-dependent Na⁺ channels, GABAergic transmission, or affinity for either GABAergic or glutaminergic receptors. Levetiracetam is believed to act via binding to the synaptic vesicle protein SV2A. Levetiracetam reduced intra-neuronal Ca²⁺ levels by inhibition of ryanodine and IP3 receptor-dependent Ca²⁺ release from the endoplasmic reticulum. It was also observed to lower the pH of neocortical pyramidal cells via weakening of the transmembrane HCO₃⁻-mediated acid-extrusion.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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