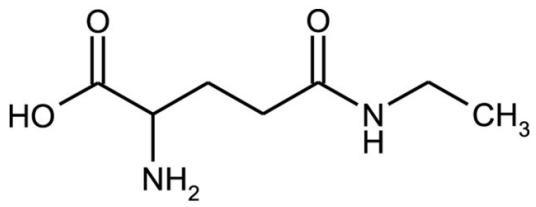
L-Theanine

Glutamate receptor ligand

Amino acid analog of glutamine, uniquely found in green tea. Increases brain serotonin, dopamine and GABA levels and binds to AMPA, kainate and NMDA receptors. Has been shown to exert neuroprotective effects in animal models possibly through its antagonistic effects on group 1 metabotrophic glutamate receptors. Behavioural studies with rats suggest L-Theanine to positiveley affect learning and memory processes. Promotes self-renewal of human embryonic stem cells.

Citations: 4 View Online »

Manuals, SDS & CofA View Online »


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HO
N
H
CH3
NH2

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from moisture.
Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Nγ-Ethyl-L-glutamine, L-Glutamic acid γ-(ethylamide)
Appearance	White to off-white solid.
CAS	3081-61-6
Couple Target	AMPA receptor, Kainate receptor, Metabotropic glutamate receptor, NMDA receptor
Couple Type	Inhibitor, Ligand
Formula	$C_7H_{14}N_2O_3$
MW	174.20
Purity	≥98% (Titration)
Solubility	Soluble in water (50mg/ml).
Source	Synthetic.

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