Datasheet

Product overview

Name: L-Glutamate
Cat No: HB0383
Short description: Glutamate receptor excitatory neurotransmitter
Biological description: Predominant excitatory neurotransmitter in the CNS. Active at ionotropic and metabotropic glutamate receptors. Physiological roles in vivo. Also associated with neuronal cell death and neurodegenerative disease pathogenesis.
Alternative names: L-glutamic acid
Biological action: Agonist

Properties

Chemical name: (S)-1-Aminopropane-1,3-dicarboxylic acid
Molecular Weight: 147.13
Chemical structure:

![Chemical structure](image)

Molecular Formula: C₅H₉NO₄
CAS Number: 56-86-0
PubChem identifier: 33032
SMILES: C(CC(=O)O)[C@@H](C(=O)O)N
InChi: InChI=1S/C5H9NO4/c6-3(5(9)10)1-2-4(7)8/h3H,1-2,6H2,(H,7,8)(H,9,10)/t3-/m0/s1
InChiKey: WHUUTDBJXJRKMK-VKHMYHEASA-N
MDL number: MFCD00002634
Appearance: White solid

Storing and Using Your Product

Storage instructions: Room temperature
Solubility overview: Soluble in 0.1M NaOH (100mM)
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for L-Glutamate

Ionotropic and metabotropic glutamate receptor structure and pharmacology.


PubMedID: 15731895
Modulation of gene expression of adenosine and metabotropic glutamate receptors in rat’s neuronal cells exposed to L-glutamate and [60]fullerene.


PubMedID: 25016660

Glutamate receptor-mediated inhibition of L-glutamate efflux from cerebral cortex in vitro.


PubMedID: 16904087