Enabling Science through Innovation

Technical Data Sheet

Kainic Acid Monohydrate

Catalog Number :5806232

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Digenin, Kainic acid hydrate

Chemical Name: (2S,3S,4S)-3-(carboxymethyl)-4-prop-1-en-2-ylpyrrolidine-2-carboxylic acid;hydrate

Molecular Formula: $C_{10}H_{15}NO_4H_2O$

Molecular Weight: 231.2

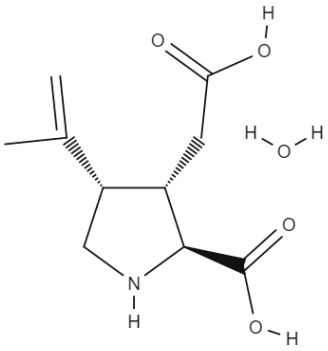
CAS Number: 58002-62-3

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Kainic acid is a potent neuroexcitatory amino acid that acts as a neurotoxin in high doses. It was originally isolated from seaweed and is used in the study of the physiological effect of excitotoxicity and assess the neuroprotective capabilities of potential therapeutics.

Preparation & Storage

Soluble in organic solvents such as DMSO. DMSO up to 2mg/ml.

References

1.Coyle, J. T., Schwarcz, R. (1976). Lesion of striatal neurons with kainic acid provides a model for Huntington's chorea.

2. Lothman, E. W., Collins, R. C. (1981). Kainic acid induced limbic seizures: metabolic, behavioral, electroencephalographic and neuropathological correlates.;Brain research,;218(1), 299-318.

3. Olney, J. W., Rhee, V., Ho, O. L. (1974). Kainic acid: a powerful neurotoxic analogue of glutamate.;Brain research,;77(3), 507-512.

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