

Certificate Of Analysis

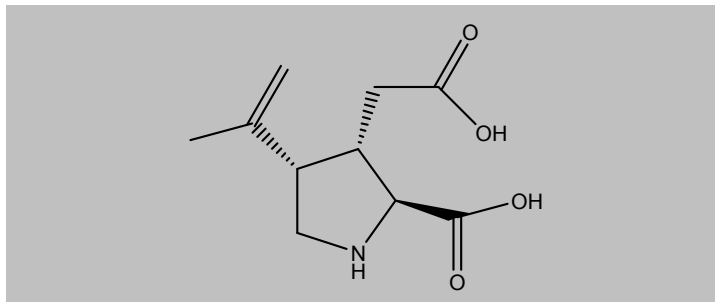
Quality Control Testing and Research Application

COA Preparation Date: 23/10/2014
COA Revision Date: 23/10/2017

Product: Kainic acid
Cat. No.: BN0281
Batch No.: 0281BN/07
Chemical Name: (2S,3S,4R)-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid; Kainate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₅NO₄
Batch Molecular Weight: 213.23
CAS No.: [487-79-6]
Physical Appearance: White solid
Melting Point:
Solubility: Soluble to 25 mM in water
Storage: RT
Batch Molecular Structure:



Product Description: **Prototype agonist at the Kainate class of ionotropic Glutamate receptors. Induces seizures and neurodegeneration *in vivo* and is used to induce experimental epilepsy in rodents and to study the mechanisms of excitation-induced neuronal apoptosis.**

References: 1. Watkins and Evans (1981) Ann Rev Pharmacol Toxicol 21:165; 2. Hampson and Manalo (1998) Nat Toxins 6:153

- CAUTION - Not fully tested. For Research use only. Not for human use. –



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BN0281 Kainic acid

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Optical rotation: -20° ($[\alpha]_D$, c = 1, solvent = water) (complies); HPLC Assay: > 99% (complies).

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