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Certificate Of Analysis

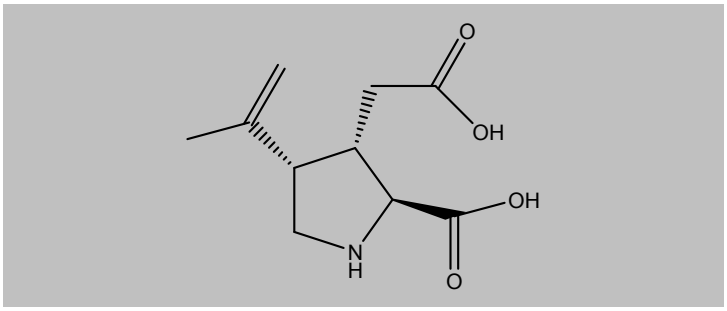
Quality Control Testing and Research Application

COA Preparation Date: 16/03/2017
COA Revision Date: 16/03/2020

Product:	**Kainic acid**
Cat. No.:	BN0281
Batch No.:	0281BN/09
Chemical Name:	(2*S*,3*S*,4*R*)-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid; Kainate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{10}H_{15}NO_4 . H_2O$
Batch Molecular Weight:	231.25
CAS No.:	[487-79-6]
Physical Appearance:	White to off-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

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BN0281 Kainic acid

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	Loss on Drying: 7.8% (complies); Optical rotation: -15° ($[\alpha]_D$, c = 1, solvent = water) (complies); HPLC Assay: > 99% (complies).