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Certificate Of Analysis

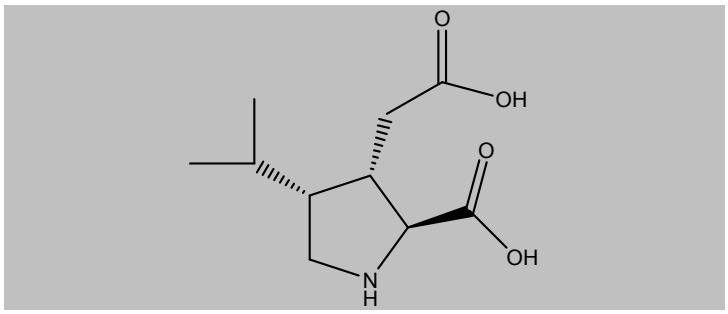
Quality Control Testing and Research Application

COA Preparation Date: 07/06/2017
COA Revision Date: 07/06/2020

Product:	**Dihydrokainic acid**
Cat. No.:	BN0188
Batch No.:	0188BN/01
Chemical Name:	(2*S*,3*S*,4*R*)-3-(Carboxymethyl)-4-isopropylpyrrolidine-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{10}H_{17}NO_4$
Batch Molecular Weight:	215.25
CAS No.:	[52497-36-6]
Physical Appearance:	White solid
Melting Point:	
Solubility:	Soluble to 25 mM in water
Storage:	RT
Batch Molecular Structure:	



Product Description:	**EAAT2 (GLT-1)-selective non-transportable inhibitor of L-glutamate and L-aspartate uptake (K_i = 23 µM). 130-fold selective over EAAT1 and EAAT3 (K_i > 3 mM). At higher concentrations, Dihydrokainate is a weak inhibitor of AMPA / kainate glutamic acid receptors.**
References:	1. Arriza et al. (1994) J Neurosci 14:5559; 2. Kanal et al. (1994) J Biol Chem 269:20599; 3. Wang et al. (1998) Eur J Neurosci 10:2523; 4. Kawahara et al. (2002) Glia 40:337

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BN0188 Dihydrokainic acid

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	Optical rotation: -33.3° ($[\alpha]_D$, c = 0.46, solvent = 6N HCl) (complies); HPLC Assay: > 99% (complies).