LKT Laboratories, Inc.

Kainic Acid

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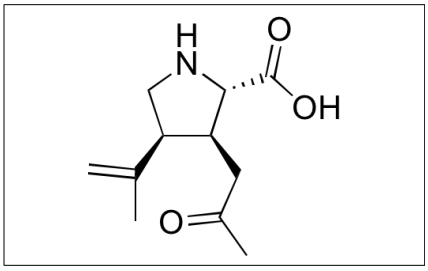
Product Information

Product ID K0133
CAS No. 487-79-6
Chemical Name [2S-(2α,3Β,4Β)]-2-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid

Synonym Digenin, Helminal



Formula $C_{10}H_{15}NO_4$
Formula Wt. 213.23
Melting Point 251°C(dec.)
Purity ≥98%
Solubility Soluble in water. Insoluble in ethanol.

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
K0133	10 mg	$246.60
K0133	25 mg	$493.20
K0133	100 mg	$1278.40

Store Temp Ambient
Ship Temp Ambient
Description Kainic acid is an excitatory amino acid originally found in seaweed; it activates kainate receptors and AMPA receptors, increasing glutamate release and stimulating Na+ channels. Kainic acid is used in research models to induce seizures due to its neurotoxic and epileptogenic activities.

References

Fritsch B, Reis J, Gasior M, et al. Role of GluK1 kainate receptors in seizures, epileptic discharges, and epileptogenesis. J Neurosci. 2014 Apr 23;34(17):5765-75. PMID: 24760837.

Ben-Ari Y. Kainate and Temporal Lobe Epilepsies: 3 decades of progress. In: Noebels JL, Avoli M, Rogawski MA, et al. editors. Jasper's Basic Mechanisms of the Epilepsies [Internet]. 4th edition. Bethesda (MD): National Center for Biotechnology Information (US); 2012. PMID: 22787646.