

Product datasheet

Ibotenic acid, excitotoxic agonist ab120041

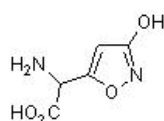
[13 References](#) [2 Images](#)

Overview

Product name	Ibotenic acid, excitotoxic agonist
Description	Excitotoxic agonist
Biological description	Neuroexcitatory amino acid originally isolated from <i>Amanita</i> species. Neurotoxin often used to model cognitive dysfunctions. NMDA and metabotropic receptor agonist. Also available in simple stock solutions (ab146670) - add 1 ml of water to get an exact, ready-to-use concentration.

CAS Number 2552-55-8

Chemical structure



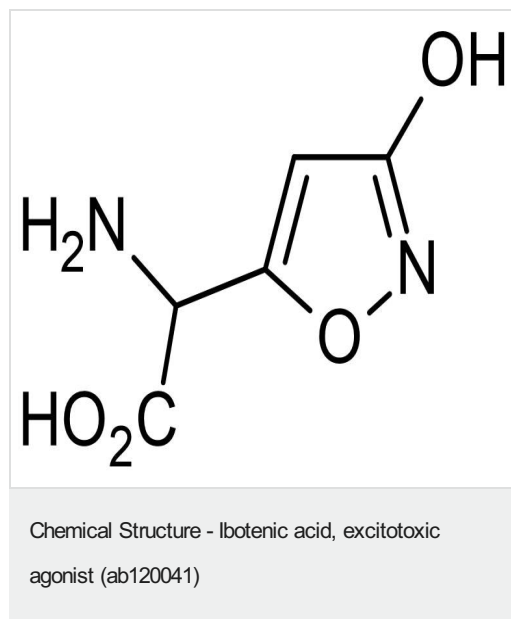
Properties

Chemical name	2-Amino-2-(3-hydroxyisoxazol-5-yl)acetic acid
Molecular weight	158.11
Molecular formula	C ₅ H ₆ N ₂ O ₄
PubChem identifier	1233
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 10 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	NC(C(=O)O)c1cc(O)n1

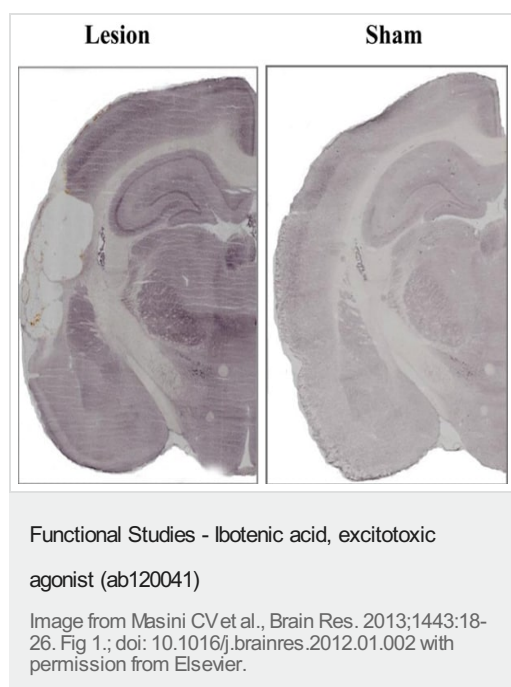
Source

Synthetic

Images



2D chemical structure image of ab120041, Ibotenic acid, excitotoxic agonist



Representative examples of NeuN immunohistochemistry of a complete auditory cortex lesion or sham-operated control section. Rats were anesthetized with halothane and placed in a Kopf stereotaxic apparatus. The skin overlying the skull was disinfected, an incision made, and small burr holes drilled through the skull bone to allow penetration of the injector (Hamilton 1 µl syringe). Bilateral excitotoxic lesions (two per side) were produced by injections of 0.25 µl ibotenic acid (10 µg/µl in 0.1 M sodium phosphate buffer, pH: 7.4; ab120041). The rate of infusion was 0.05 µl/min. The injector was lowered in the brain and left in place 3 min before and 5 min after each injection.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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