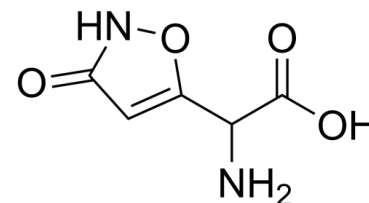


Data Sheet

Product Name:	Ibotenic acid
Cat. No.:	CS-0020472
CAS No.:	2552-55-8
Molecular Formula:	C ₅ H ₆ N ₂ O ₄
Molecular Weight:	158.11
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	H ₂ O : 5 mg/mL (31.62 mM; Need ultrasonic); DMSO : 5 mg/mL (31.62 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Ibotenic acid has agonist activity at both the N-methyl-D-aspartate (**NMDA**) and trans-ACPD or metabotropic quisqualate (Q_m) receptor sites. IC₅₀ & Target: NMDA receptor^[1] *In Vitro*: Ibotenic acid (Ibo) is capable of acting at both NMDA and trans-ACPD receptors in the CNS, although only activation of NMDA receptors is involved in Ibo neurotoxicity. Ibotenic acid is toxic to cortical neurons exposed for 5 min with an EC₅₀=77.3±8 μM (n=5) as measured by release of lactate dehydrogenase to the culture media^[1].

References:

[1]. Zinkand WC, et al. Ibotenic acid mediates neurotoxicity and phosphoinositide hydrolysis by independent receptor mechanisms. Mol Chem Neuropathol. 1992 Feb-Apr;16(1-2):1-10.

CAIndexNames:

5-Isoxazoleacetic acid, α-amino-2,3-dihydro-3-oxo-

SMILES:

O=C(O)C(N)C(ON1)=CC1=O

Caution: Product has not been fully validated for medical applications. For research use only.

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