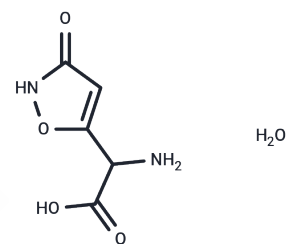


Ibotenic acid hydrate

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 60573-88-8 |
| Formula: | C ₅ H ₈ N ₂ O ₅ |
| Molecular Weight: | 176.13 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|---|
| Description | Ibotenic acid hydrate ((RS)-Ibotenic acid hydrate) is an excitatory amino acid receptor agonist that primarily exerts its effects by activating glutamate receptors, such as NMDA receptors. Ibotenic acid hydrate can be extracted from the fly agaric mushroom (<i>Amanita muscaria</i>). |
| Targets(IC50) | NMDAR |
| In vitro | Ibotenic acid hydrate acts on NMDA and trans-ACPD receptors in the CNS. Ibotenic acid hydrate is toxic to cortical neurons, exposed for 5 minutes, EC ₅₀ = 77.3 μM. [1] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 5.6776 mL | 28.3881 mL | 56.7762 mL |
| 5 mM | 1.1355 mL | 5.6776 mL | 11.3552 mL |
| 10 mM | 0.5678 mL | 2.8388 mL | 5.6776 mL |
| 50 mM | 0.1136 mL | 0.5678 mL | 1.1355 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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.
- Frydenvang K, et al. Biostructural and pharmacological studies of bicyclic analogues of the 3-isoxazolol glutamate receptor agonist ibotenic acid. *J Med Chem.* 2010 Dec 9;53(23):8354-61.

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