

Product Data Sheet

Product Name: HexylHIBO (hydrobromide)

Cat. No.: GC91946

Chemical Properties

Cas. No.

Chemical Name α -amino-4-hexyl-2,3-dihydro-3-oxo-5-isoxazolepropanoic acid, monohydrobromide

SMILES O=C1C(CCCCCC)=C(CC(N)C(O)=O)ON1.Br

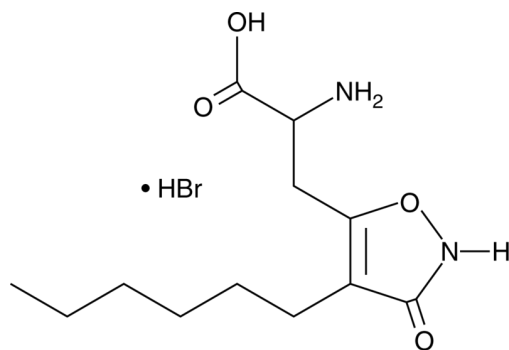
Formula $C_{12}H_{20}N_2O_4 \cdot HBr$ M.Wt 337.2

Solubility Methanol: Slightly soluble: 0.1-1 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

HexylHIBO is an antagonist of group I metabotropic glutamate receptors (mGluRs; $K_{bs} = 140$ and 110 ?M for mGluR1 α and mGluR5a, respectively).¹ It is selective for group I mGluRs over mGluR2 (group II) and mGluR4a (group III) ($K_{bs} = >1,000 \text{ ?M}$ for both), as well as AMPA, NMDA, and kainate

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

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receptors (IC_{50} s = $>100 \text{ ?M}$ for all). HexylHIBO (6.3 and 12.5 mg/kg, i.c.v.) inhibits NMDA-induced seizures in mice. It also potentiates increases in plasma adrenocorticotrophic hormone (ACTH) levels in a rat model of restraint stress.²

References:

- [1]. Madsen, U., Br?uner-Osborne, H., Frydenvang, K., et al. Synthesis and pharmacology of 3-isoxazolol amino acids as selective antagonists at group I metabotropic glutamic acid receptors. *J. Med. Chem.* 44(7)1051-1059(2001).
- [2]. Evanson, N.K., and Herman, J.P. Metabotropic glutamate receptor-mediated signaling dampens the HPA axis response to restraint stress. *Physiol. Behav.* 150:2-7(2015).

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