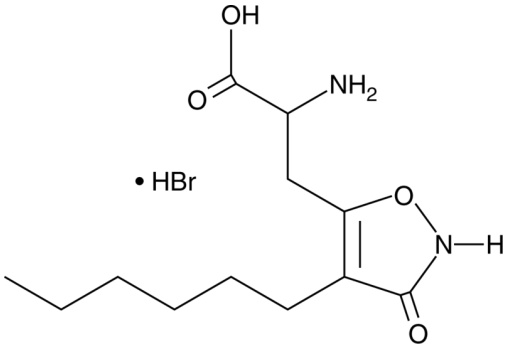
Product Data Sheet

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	$C_{12}H_{20}N_2O_4$? HBr	M.Wt	337.2
Solubility	Methanol: Slightly soluble: 0.1-1 mg/ml	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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 mGluR1α and mGluR5a, respectively).[1] It is selective for group I mGluRs over mGluR2 (group II) and mGluR4a (group III) (K_bs = >1,000 ?M for both), as well as AMPA, NMDA, and kainate

receptors (IC_{50}s = >100 ?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 adrenocorticotropic 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 receptorsJ. 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 stressPhysiol. Behav.1502-7(2015).

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