Product Data Sheet

Product Name: β-NETA
Cat. No.: GC27671

Chemical Properties

Cas. No.	31059-54-8		
Formula	$C_{16}H_{20}INO$	M.Wt	369.24
Solubility	DMSO : 31.25 mg/mL (84.63 mM; Need ultrasonic)	Storage	4°C, sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	β-NETA		

Background

β-NETA is a potent and noncompetitive choline acetyltransferase (ChA; IC_{50}=76 μM) and cholinesterase (ChE; IC_{50}=40 μM) inhibitor. β-NETA weakly inhibits acetylcholinesterase (AChE; IC_{50}=1 mM)[1][2].

At ChA-inhibiting concentrations, β-NETA had no effect on muscarinic receptors, ganglion nicotinic receptors, skeletal muscle nicotinic receptors, cholinesterase, or carnitine acetyltransferase. At concentrations above the ChA-inhibiting IC_{50} value, β-NETA antagonized acetylcholine (ED_{50} = 100 μM), histamine, and KCl-induced guinea pig ileal longitudinal muscle contraction [2].

References:
[1]. Sastry BV, et al. Relationships between chemical structure and inhibition of choline acetyltransferase by 2-(alpha-naphthoyl)ethyltrimethylammonium and related compounds. Pharmacol Res Commun. 1988 Sep;20(9):751-71.
[2]. B V Sastry, et al. 2-(alpha-Naphthoyl)ethyltrimethylammonium iodide and its beta-isomer: new selective, stable and fluorescent inhibitors of choline acetyltransferase. J

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Pharmacol Exp Ther. 1988 Apr;245(1):72-80.

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Address: 10292 Central Ave. #205, Montclair, CA, USA