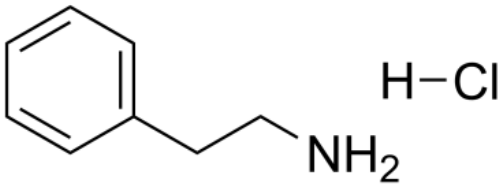
Product Data Sheet

Product Name: 2-Phenylethylamine hydrochloride
Cat. No.: GC38692

Chemical Properties

Cas. No.	156-28-5		
SMILES	NCCC1=CC=CC=C1.[H]Cl		
Formula	$C_8H_{12}ClN$	M.Wt	157.64
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,Ethanol: 25 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store at -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

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2-Phenylethanamine hydrochloride is believed to function as a neuromodulator or neurotransmitter.

2-Phenylethanamine (PEA) is soluble in water, ethanol, and ether. Phenethylamine is a skin irritant and possible sensitizer. 2-Phenylethanamine is believed to function as a neuromodulator or neurotransmitter (a trace amine). It is also found in many foods such as chocolate, especially after microbial fermentation. 2-Phenylethanamine is a precursor to the neurotransmitter phenylethanolamine. High levels of 2-Phenylethanamine have been found in the urine of schizophrenics but it is not significantly elevated in the serum or CSF of schizophrenics[1][2]. Urinary levels of 2-Phenylethanamine are significantly lower in children with attention deficit hyperactivity disorder. 2-Phenylethanamine is useful for scaring off rodent pests[3].

[1]. O'Reilly RL, et al. Phenylethylamine and schizophrenia. Prog Neuropsychopharmacol Biol Psychiatry. 1994 Jan;18(1):63-75. [2]. Potkin SG, et al. Phenylethylamine (PEA) and phenylacetic acid (PAA) in the urine of chronic schizophrenic patients and controls. Psychopharmacol Bull. 1980 Jan;16(1):52-4. [3]. Kusaga A, et al. Increased urine phenylethylamine after methylphenidate treatment in children with ADHD. Ann Neurol. 2002 Sep;52(3):372-4.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA