Catalog # 10-2682

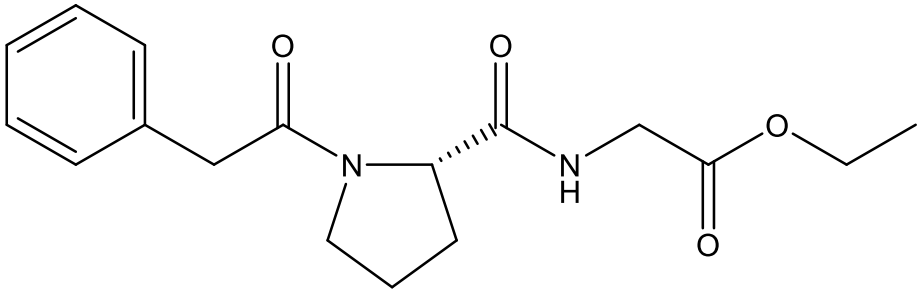
Noopept

157115-85-0

1-(2-Phenylacetyl)-L-prolyl-glycine ethyl ester

SGS-111; GVS 111

Lot # X108752



A novel proline-containing dipeptide with nootropic and cognition-enhancing activity.[1] Rescues α-synuclein amyloid toxicity in cellular models.[2] Stimulates the expression of NGF and BDNF in rat hippocampus.[3] Improves viability of hippocampal HT-22 neurons in a glutamate toxicity model.[4] Normalizes blood glucose level and tolerance to glucose load in a streptozotocin diabetic rat model of developing diabetes.[5]

1) Ostrovskaya *et al*. (2007), *The nootropic and neuroprotective proline-containing dipeptide noopept restores spatial memory and increases immunoreactivity to amyloid in an Alzheimer's disease model*; J. Psychopharmacol., **21** 611
2) Jia *et al*. (2011), *Neuroprotective and nootropic drug noopept rescues α-synuclein amyloid cytotoxicity*; J. Mol. Biol., **414** 699
3) Ostrovskaya *et al*. (2008), *Noopept stimulates the expression of NGF and BDNF in rat hippocampus*; Bull. Exp. Biol. Med., **146** 334
4) Antipova *et al*. (2016), *Dipeptide Piracetam Analogue Noopept Improves Viability of Hippocampal HT-22 Neurons in the Glutamate Toxicity Model*; Bull. Exp. Biol. Med., **161** 58
5) Ostrovskaya *et al*. (2014), *Comparative activity of proline-containing dipeptide noopept and inhibitor of dipeptidyl peptidase-4 sitagliptin in a rat model of developing diabetes*; Bull. Exp. Biol. Med., **156** 342

PHYSICAL DATA

Molecular Weight:	318.37
Molecular Formula:	$C_{17}H_{22}N_2O_4$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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