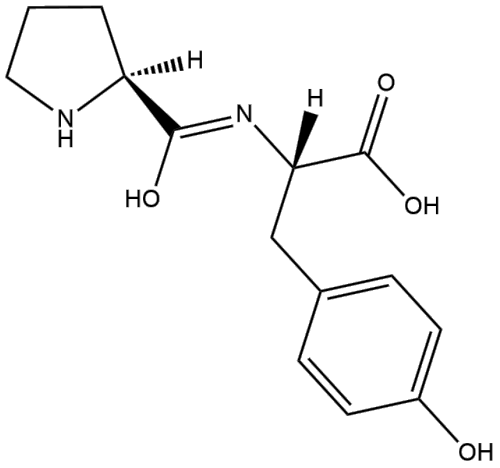
Product Data Sheet

Product Name: H-Pro-Tyr-OH
Cat. No.: GA22872

Chemical Properties

Cas. No.	19786-36-8		
Formula	$C_{14}H_{18}N_2O_4$	M.Wt	278.31
Solubility	Soluble in DMSO	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

H-Pro-Tyr-OH is a dipeptide that can be cyclized and is used for membrane analysis [1]. Peptides containing the H-Pro-Tyr-OH fragment have a low-energy conformation and can be used in multiple molecular dynamics simulation experiments[2]. H-Pro-Tyr-OH is widely used as a model compound for analyzing molecular conformation in circular dichroism experiments[3].

References:

[1] Matsufuji H, Matsui T, Ohshige S, et al. Antihypertensive effects of angiotensin fragments in SHR[J]. Bioscience, biotechnology, and biochemistry, 1995, 59(8): 1398-1401.

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

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[2] Nardi F, Kemmink J, Sattler M, et al. The cisproline (i– 1)-aromatic (i) interaction: Folding of the Ala-cisPro-Tyr peptide characterized by NMR and theoretical approaches[J]. Journal of biomolecular NMR, 2000, 17(1): 63-77.
[3] Wierzchowski K L, Majcher K, Poznański J. CD investigations on conformation of HX-(Pro) nY-OH peptides (X= Trp, Tyr; Y= Tyr, Met); models for intramolecular long range electron transfer[J]. Acta Biochimica Polonica, 1995, 42(2): 259-268.

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