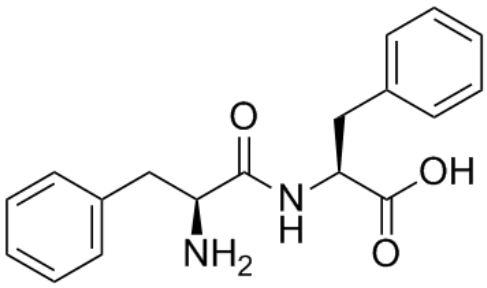
Product Data Sheet

Product Name: H-Phe-Phe-OH
Cat. No.: GC31316

Chemical Properties

Cas. No.	2577-40-4		
SMILES	O=C(O)[C@H](CC1=CC=CC=C1)NC([C@H](CC2=CC=CC=C2)N)=O		
Formula	$C_{18}H_{20}N_2O_3$	M.Wt	312.36
Solubility	80% Acetic acid/water : 50 mg/mL (160.07 mM; Need ultrasonic); DMSO : < 1 mg/mL (insoluble or slightly soluble); H_2O : < 0.1 mg/mL (insoluble)	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-Phe-Phe-OH is a peptide made of two phenylalanine molecules; Phenylalanine is an essential amino acid and the precursor for the amino acid tyrosine.

Caution: Product has not been fully validated for medical applications. For research use only.
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H-Phe-Phe-OH (Phe-Phe) is a peptide made of two phenylalanine molecules. Phenylalanine is an essential amino acid and the precursor for the amino acid tyrosine. It is the precursor of catecholamines in the body. The psychotropic drugs (mescaline, morphine, codeine, and papaverine) also have phenylalanine as a constituent. The H-Phe-Phe-OH recognition motif of the Alzheimer's Abeta peptide is the smallest peptide able to assemble into higher -order structures[1].

[1]. de Groot NS, et al. Ile-phe dipeptide self-assembly: clues to amyloid formation. Biophys J. 2007 Mar 1;92(5):1732-41

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