

4-Benzoyl-L-phenylalanine

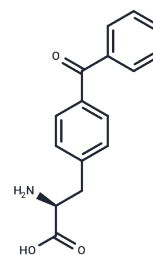
Chemical Properties

CAS No. : 104504-45-2

Formula: C₁₆H₁₅NO₃

Molecular Weight: 269.30

Storage: Keep away from moisture, Keep away from direct sunlight
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	4-Benzoyl-L-phenylalanine is an L-phenylalanine derivative and optically active amino acid. It may be incorporated as a photolabelling agent into synthetic peptides to identify residues involved in peptide-protein interactions.
Targets(IC50)	Amino Acids and Derivatives, Photosensitizer

Solubility Information

Solubility	DMSO: Soluble, H ₂ O: 3.5 mg/mL (13 mM), when pH is adjusted to 11 with NaOH. Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7133 mL	18.5667 mL	37.1333 mL
5 mM	0.7427 mL	3.7133 mL	7.4267 mL
10 mM	0.3713 mL	1.8567 mL	3.7133 mL
50 mM	0.0743 mL	0.3713 mL	0.7427 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. *Crit Rev Food Sci Nutr.* 2015;55(13):1793-1024.

Starkey JR, et al. Cell surface and substrate distribution of the 67-kDa laminin-binding protein determined by using a ligand photoaffinity probe. *Cytometry.* 1999 Jan 1;35(1):37-47.

Henry LK, et al. Identification of a contact region between the tridecapeptide alpha-factor mating pheromone of *Saccharomyces cerevisiae* and its G protein-coupled receptor by photoaffinity labeling. *Biochemistry.* 2002 May 14;41(19):6128-39.

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