
Product Data Sheet

Product Name: H-Arg-Arg-OH

Cat. No.: GA22068

Chemical Properties

Cas. No. 15483-27-9

Formula $C_{12}H_{26}N_8O_3$ M.Wt 330.39

Solubility 10mg/ml 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-Arg-Arg-OH is a basic dipeptide composed of two arginine molecules linked by a peptide bond^[1]. Under physiological conditions, H-Arg-Arg-OH carries a strong positive charge, possesses excellent water solubility, and has specific enzymatic cleavage sites^[2]. H-Arg-Arg-OH is a classic specific substrate for serine proteases such as trypsin and is commonly used in enzyme kinetics studies and enzyme activity assays. Its strong basic characteristics also make it a model molecule for studying the interaction between cationic peptides and biological membranes^[2]. H-Arg-Arg-OH is suitable for biochemical research, enzymatic experiments, and as an intermediate or reference standard in polypeptide synthesis^[3, 4].

References:

[1] Atkinson C E, Aliev A E, Motherwell W B. Binding site optimisation for artificial enzymes by diffusion NMR of small molecules[J]. Chemistry-A European Journal, 2003, 9(8): 1714-1723.

[2] Smiljanic E. Some studies of artificial enzyme systems[M]. University of London, University College London (United Kingdom), 2006.

[3] Lee Y, Yang J, Rudich S M, et al. Improved planar amperometric nitric oxide sensor

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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based on platinized platinum anode. 2. Direct real-time measurement of NO generated from porcine kidney slices in the presence of L-arginine, L-arginine polymers, and protamine[J]. Analytical chemistry, 2004, 76(3): 545-551.

[4] Arendt M, Sun W, Thomann J, et al. Dendrimeric bisphosphonates for multivalent protein surface binding[J]. Chemistry-An Asian Journal, 2006, 1(4): 544-554.

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