

Product Data Sheet

Product Name: Histone H4 peptide substrate (1-21) acetate

Cat. No.: GC81837

Chemical Properties

Cas. No.

Formula $C_{87}H_{159}N_{37}O_{23} \cdot xC_2H_4O_2$ M.Wt 2091.43

Solubility DMSO: 100 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

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

Histone H4 peptide substrate (1-21) acetate is a PAD4 peptide substrate. Histone H4 peptide substrate (1-21) acetate serves as a substrate for the PAD4-catalyzed hydrolytic deimination of

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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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arginine residues, producing citrulline and ammonia [1].

In Vitro, Histone H4 peptide substrate (1-21) acetate (Compound H4-21) undergoes deimination catalyzed by purified recombinant human PAD4, exhibiting steady-state kinetic parameters comparable to those of benzoylated arginine derivatives[1].

References:

[1]. Kearney PL, et al. Kinetic characterization of protein arginine deiminase 4: a transcriptional corepressor implicated in the onset and progression of rheumatoid arthritis. *Biochemistry*. 2005;44(31):10570-10582.

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