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

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.