

Chengdu KaiJie Biopharm Co., Ltd.

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Certification of Analysis

Product Name		Protirelin Acetate		CAS No.	243	24305-27-9	
Molecular Formula		$C_{16}H_{22}N_6O_4$		Batch No.	20	20100301	
Molecular Weight		362.4		Manufacturing Date 03/0		01/2010	
Storage		2∼8℃		Retest Date	02/28/2012		
Sequence		Pyr-His-Pro-NH ₂					
	ST		SPECIFICATION	RESULT			
1	Appearance		White powder		White powder		
2	Solubility		Soluble in water or acetic acid at a to give a clear, colorless solution			Conforms	
3	Identification (MS)		362.4±1.0		362.1		
4	Amino Acid Composition		±10% of theoretical		Conforms		
5	Peptide Purity (By HPLC)		≥98.0% by area integration		99.40%		
6	Related Substance(By HPLC)		Total Impurities(%)≤2.0% Largest Single Impurity(%)≤1.0%		0.60% 0.40%		
7	Acetate Content (By HPLC)		≤10.0%		6.53%		
8	Water Content(Karl Fischer)		≤5.0%		1.44%		
9	Bacterial Endotoxins		≤5EU/mg		Conform		
10	Peptide Content (N determination)		≥8	≥80.0%		91.28%	
11	Assay(By Anhydrous, Acetic Acid-free) 95.0~105.0%			.0~105.0%		99.25%	

Quality Control By	Zhouzhongbing	Date:	2010-03-09
			

Quality Assurance Department