



# Chengdu KaiJie Biopharm Co., Ltd.

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## Certification of Analysis

<b>Product Name</b>		<b>Tetracosactide Acetate (ACTH1-24)</b>	
<b>CAS No.</b>	16960-16-0	<b>Molecular Formula</b>	$C_{136}H_{210}N_{40}O_{31}S$
<b>Molecular Weight</b>	2933.5	<b>Batch No.</b>	20100406
<b>Manufacturing Date</b>	04/06/2010	<b>Expire date</b>	2 years
<b>Storage</b>	2~8 °C	<b>Retest Date</b>	04/05/2012
<b>Sequence</b>	Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly- Lys-Pro-Val-Gly-Lys- Lys-Arg-Arg-Pro-Val- Lys-Val-Tyr-Pro-OH		
<b>TEST</b>		<b>SPECIFICATION</b>	<b>RESULT</b>
1	<b>Appearance</b>	White to Off-white powder	Complies
2	<b>Solubility</b>	Soluble in water and in a 1% glacial acetic acid	Complies
3	<b>Identity by HPLC</b>	The retention is same with the reference substance	Complies
4	<b>Specific Optical Rotation</b>	-99.0~-109.0°(c=1, 1%HAc)	-102.15°
5	<b>Amino Acid Composition</b>	±10% of theoretical	Complies
6	<b>Water Content(Karl Fischer)</b>	≤ 8.0%	3.90%
7	<b>Acetate Content (By HPLC)</b>	≤ 13.0%	11.46%
8	<b>Peptide Purity</b>	≥ 95.0%	99.59%
9	<b>Related Substance(By HPLC)</b>	Total Impurities(%)≤ 2.0% Largest Single Impurity(%)≤ 1.0%	0.42% 0.25%
10	<b>Bacterial Endotoxins</b>	≤ 50IU/mg	≤ 5IU/mg
11	<b>Assay</b>	97.0~103.0%	99.11%

Quality Control Assurance By Zhouzhongbing Date: 2010-04-19

Quality Assurance Department