

## Bremelanotide Acetate (PT141)

<b>Product Name</b>	<i>Bremelanotide Acetate</i>	<b>CAS No.</b>	32780-32-8
<b>Molecular Formula</b>	$C_{50}H_{68}N_{14}O_{10}$	<b>Batch No.</b>	20100619
<b>Molecular Weight</b>	1025.2	<b>Manufacturing Date</b>	06/19/2010
<b>Storage</b>	2~8 °C	<b>Retest Date</b>	06/18/2012
<b>Sequence</b>	Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-OH		
<b>TEST</b>		<b>SPECIFICATION</b>	<b>RESULT</b>
1	<b>Appearance</b>	<i>White powder</i>	<i>White powder</i>
2	<b>Solubility</b>	<i>Soluble in water and 1% acetic acid</i>	<i>Conforms</i>
3	<b>Specifical Optical Rotation</b>	$-50^{\circ}\sim-60^{\circ}(c=1, 1\%HAc)$	$-55.65^{\circ}$
4	<b>Amino Acid Composition</b>	$\pm 20\%$ of theoretical	<i>Conforms</i>
5	<b>Peptide Purity (By HPLC)</b>	$\geq 98.0\%$ by area integration	99.67%
6	<b>Related Substance (By HPLC)</b>	<i>Total Impurities(%)≤2.0%</i> <i>Largest Single Impurity(%)≤1.0%</i>	0.33% 0.15%
7	<b>Acetate Content (By HPLC)</b>	$\leq 15.0\%$	13.32%
8	<b>Water Content (Karl Fischer)</b>	$\leq 8.0\%$	2.35%
9	<b>Bacterial Endotoxins</b>	$\leq 5EU/mg$	<i>Conforms</i>
10	<b>Assay (By anhydrous, acetic acid-free)</b>	$95.0\sim 105.0\%$	99.50%

Quality Control By Zhouzhongbing Date: 2010-07-19

Quality Assurance Department