Aktin Chemicals, Inc.
No.88 Keyuan South Road, High-tech Zone, Chengdu
610041 P.R.China
Tel: 86-28-85159085 Fax: 86-28-85159085 Ex 604
Website: www.aktin.com Email: info@aktin.com

Nature Connecting Health

SPECIFICATION SHEET

File No.:JT-TDS-CP0086 Version:00 Effective date:2026.11.05

Product Name	AktiPep™ PT5 Palmitoyl Tripeptide-5
CAS No.	623172-56-5
Molecular Formula	$C_{33}H_{65}N_5O_5.2C_2HF_3O_2$
Molecular Weight	839.95
Product Specification	98.0%
Country of Origin	China

QUALITY SPECIFICATIONS

ITEMS	SPECIFICATIONS	METHODS
Appearance	White or almost white powder	Visual
Identification	According to the mass spectrometry method, the $[M+H]^+$ m/z of the test solution is 612.9 ± 0.5Da	ESI-MS
	In the chromatogram recorded under the content determination item, the retention time of the main peak of the test solution should be consistent with that of the reference solution	HPLC
Moisture	≤8.0%	KF
TFA	NLT 30.0 %	HPLC
Assay		
Palmitoyl Tripeptide-5	NLT 98.0 %	HPLC
Peptide	NLT 65.0 %	AAA
Residues		
Solvent Residues	USP<467>	GC
Benzoapyrene	<10ppb	HPLC
Sum of PAHS	<50ppb	HPLC
Heavy metals		
Heavy Metals	≤20ppm	ICP-MS
Lead	≤2ppm	ICP-MS
Arsenic	≤1ppm	ICP-MS

Aktin Chemicals, Inc.
No.88 Keyuan South Road, High-tech Zone, Chengdu
610041 P.R.China
Tel: 86-28-85159085 Fax: 86-28-85159085 Ex 604
Website: www.aktin.com Email: info@aktin.com

Nature Connecting Health

ITEMS	SPECIFICATIONS	METHODS
Mercury	≤0.1ppm	ICP-MS
Cadmium	≤1ppm	ICP-MS
Microbiological		
Total Plate Count	<1000cfu/g	USP <2021>
Yeast& Mold	<100cfu/g	USP <2021>
E.Coli	Negative	USP <2022>
Salmonella	Negative	USP <2022>
Staphylococcus	Negative	USP <2022>
Statement: Non-Irradiated, Non-BSE/TSE, Non-GMO, Non-Allergen		

STORAGE, STABILITY & PACKAGING

Storage	Short-term storage: at 2–8°C in a tightly closed container, in a dry place, protected from light.
	Long-term storage: at −20°C in a tightly closed container, in a dry place, protected from light.
Stability	24 months when properly stored.
Packaging	25kg/drum or as requested.