For Enjoyable Discovery

CERTIFICATE OF ANALYSIS

Product Name	KP1 peptide, Cat.#: 319010 (TFA removed)
Lot No.	MTFB21124-260831
Sequence	FQGTFPDGFLWAVGSAAYQTEGGWQQHGKG (HCl Salt)
Dissolution condition	100%H2O
Modification	HCL salt
Molecular Weight (MW)	3228.48
Storage	-20°C

Test Items	**Specifications**	**Results**
MW by MS	3228.90	Conforms
Purity by HPLC	>95%	95.379%
Peptide content	N/A	N/A
N content	N/A	N/A
TFA content	N/A	N/A
Endotoxin content	N/A	N/A
Appearance	White to off-white lyophilized powder	Conforms
Quantity	60.0mg	5.0mg*12

Certified by:

Quality Assurance Department

Sep/02/2026

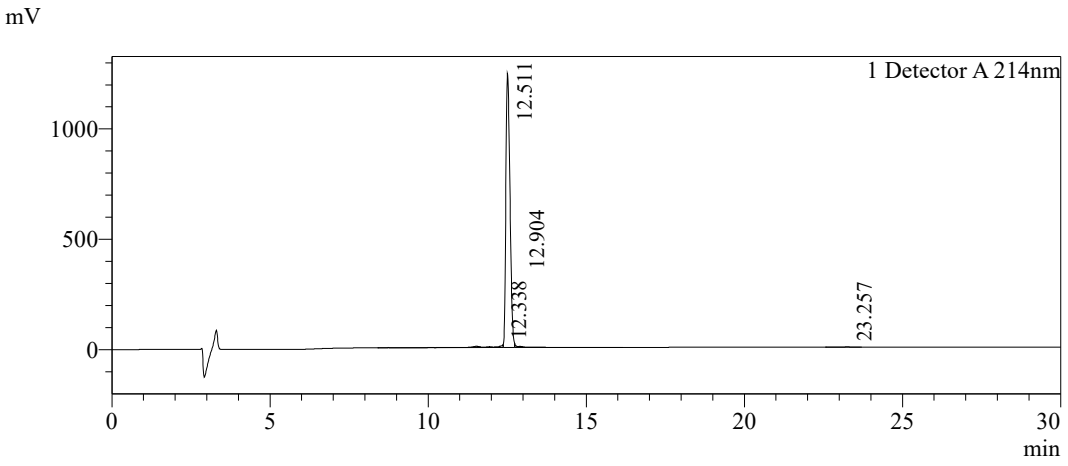
NovoPro Biosciences Inc. VERIFIED Quality Control

Sample Information

Order ID	:MTFB21124
Name	:KP1 peptide, Cat.#: 319010 (TFA removed)
Sequence	:FQGTFPDGFLWAVGSAAYQTEGGWQQHGKG(HCl Salt)
Lot. No	:MTFB21124-260831
Pump A	:0.1%Trifluoroacetic in 100% water
Pump B	:0.1%Trifluoroacetic in 100% acetonitrile
Total Flow	:1ml/min
Wavelength	:214nm
Analytial column type	:Kromasil 100-5-C18 (4.6*250mm*5 μm)
Dissolution method	:100%H2O
Inj. Volume	: 25ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	30
30.00	Pumps	B.Conc	60
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	30
50.00	Controller	Stop	

Chromatogram

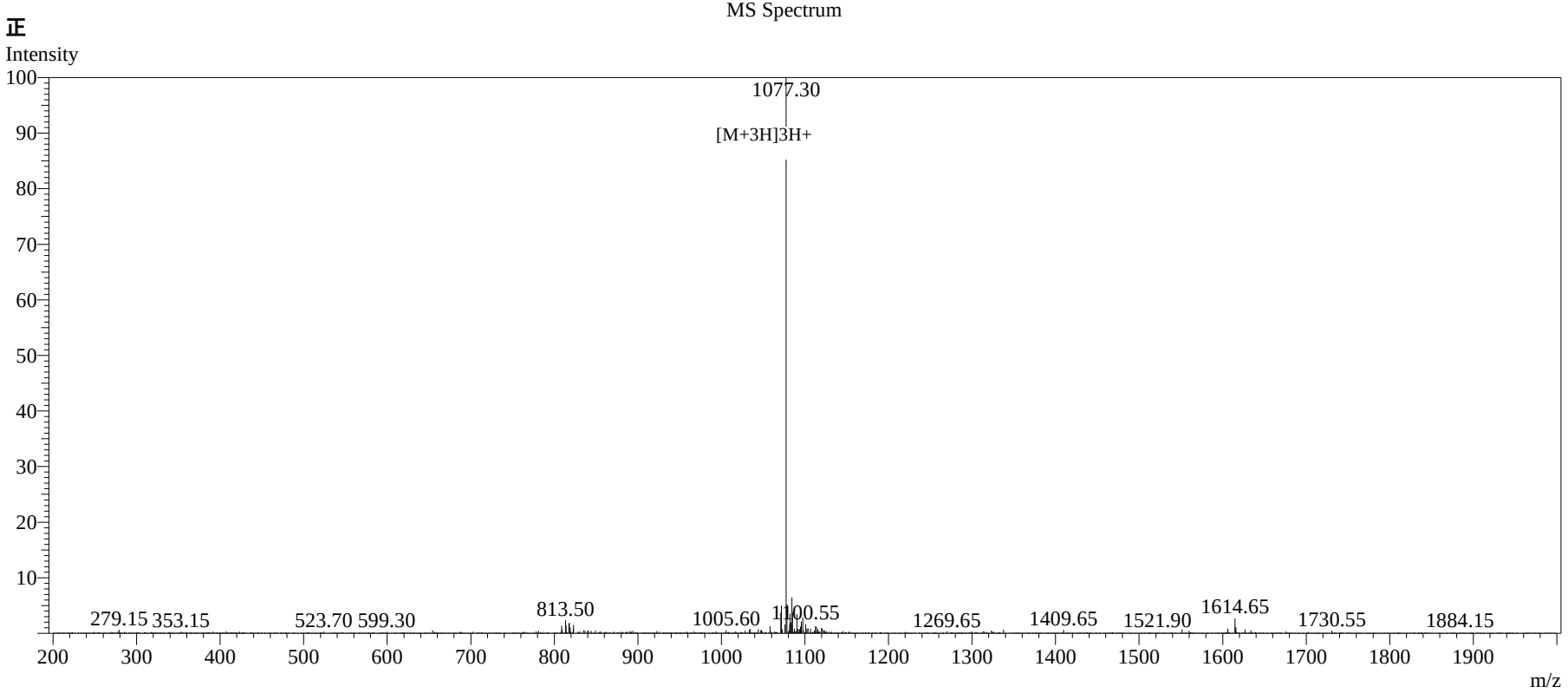


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	12.338	331688	8146	2.813
2	12.511	11246839	1241262	95.379
3	12.904	196653	5432	1.668
4	23.257	16561	1207	0.140
Total		11791741	1256048	100.000

MS Spectrum



Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2026/09/01 10:14:36	Nebulizing Gas Flow	:1.50L/min	Detector	:-0.2kv
Injection Volume	:0.2ul	CDL Temp	:250℃	T.Flow	:0.2ml/min
Block Temp	:200	CDL Volt	:0v	B.conc	:50%H2O/50%MEOH

Order ID	:MTFB21124
Name	:KP1 peptide, Cat.#: 319010 (TFA removed)
Sequence	:FQGTFPDGFLWAVGSAAYQTEGGWQQHGKG(HCl Salt)
Lot.No	:MTFB21124-260831
Theoretical	:3228.48
Observed	:3228.90

Instructions for dissolving KP1 (Klotho-derived peptide 1)

The KP1 is soluble in pure water, 1 x PBS, or Bacteriostatic (BAC) water.

The suggested concentration is 5.0 mg/ml.

The steps are as below:

1. Adding 1.0 ml ultrapure water to the 2.0 ml tube of KP1 peptide.
2. Wait about 1 minute at room temperature until the solution is clear, which indicates the peptide is fully dissolved;
3. Use a sterile 0.22 µm membrane filter for a particle-free and bacteria-free solution.
   For example, Catalog# SLGPR33RB, Millipore Millex-GP Syringe Filter Unit, 0.22 µm, polyethersulfone, 33 mm, gamma sterilized.

References of KP1 peptide

1. Yuan Q, Ren Q, Li L, et al. A Klotho-derived peptide protects against kidney fibrosis by targeting TGF-β signaling. Nat Commun. 2022;13(1):438. Published 2022 Jan 21. doi:10.1038/s41467-022-28096-z
https://pmc.ncbi.nlm.nih.gov/articles/PMC8782923/

1. Zhang X, Lin S, Wu T, Zhang Z, Zhou H, Hong X, Liu Y. Klotho-Derived Peptide 1 Protects against Acute Kidney Injury by Directly Targeting Mitochondrial ATAD3A. Adv Sci. 2026 Aug 25:e77214. doi: 10.1002/advs.77214.
https://pmc.ncbi.nlm.nih.gov/articles/PMC13505471/