Lys-gamma3-MSH(human)

PRODUCT DESCRIPTION

Lys-gamma3-MSH(human) is a 27-amino-acid A peptide related to the melanocortin system, derived from proopiomelanocortin (POMC) or its analogs. Melanocortins signal through MC1R-MC5R receptors to regulate pigmentation, inflammation, energy homeostasis, and sexual function. Used in dermatology, endocrinology, and neuroscience research for studying melanocortin receptor pharmacology and POMC processing.

PRODUCT SPECIFICATIONS

Catalog Number	BPT0237
CAS Number	156159-18-1
Molecular Weight	3018.2374 Da
Molecular Formula	C128H193N45O39S1
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

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KYVMGHFRWDRFGRRNSSSSGSSGAGQ
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Three-Letter Code:

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H-Lys-Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly-Arg-Arg-Asn-Ser-Ser-Ser-Ser-Gly-Ser-Ser-Gly-Ala-Gly-Gln-OH
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RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Melanocortin Receptors (MC1-5R)
Research Area	Endocrinology
Sub-category	Melanocortin System & Pigmentation

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg

Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request