

Melanotan II (MT-2)

PRODUCT DESCRIPTION

Melanotan II is a cyclic alpha-MSH analog and non-selective melanocortin receptor agonist (MC1R-MC5R). MC1R activation stimulates eumelanin production; MC3R/MC4R activation modulates appetite, energy homeostasis, and sexual arousal. Research tool for melanocortin pharmacology and pigmentation biology.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2919
CAS Number	121062-08-6
Molecular Weight	1024.18 Da
Molecular Formula	C78H111N21O19
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Ac-Nle-c[Asp-His-D-Phe-Arg-Trp-Lys]-NH2 (cyclic)

Three-Letter Code:

Ac-Ser-Tyr-Ser-Nle-Glu-His-D-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2

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