

Helianorphin-19

Cat. No.:	HY-P5907
CAS No.:	2883653-86-7
Molecular Formula:	C ₈₁ H ₁₃₂ N ₂₆ O ₁₆ S ₂
Molecular Weight:	1790.21
Sequence:	Cyclo(Cys-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Cys-Ile-Arg-Pro-Lys-Leu-Lys) (Disulfide bridge: Cys1-Cys9)
Sequence Shortening:	Cyclo(CYGGFLRRCIRPKLK) (Disulfide bridge: Cys1-Cys9)
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Helianorphin-19 is a potent and selective κ -opioid receptor (KOR) activator with a K _i of 21 nM and an EC ₅₀ of 45 nM. Helianorphin-19 exhibits strong KOR-specific peripheral analgesic activity in a mouse model of chronic visceral pain ^[1] .
IC ₅₀ & Target	Ki: 21 nM (KOR) ED50: 45 nM (KOR) ^[1]

REFERENCES

[1]. Muratspahić E, et al. Design of a Stable Cyclic Peptide Analgesic Derived from Sunflower Seeds that Targets the κ -Opioid Receptor for the Treatment of Chronic Abdominal Pain. *J Med Chem.* 2021 Jul 8;64(13):9042-9055.

Caution: Product has not been fully validated for medical applications. For research use only.

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