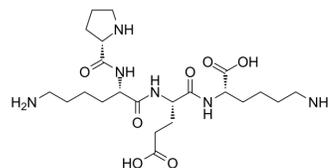


Tetrapeptide-30

Cat. No.:	HY-P3452
CAS No.:	1036207-61-0
Molecular Formula:	C ₂₂ H ₄₀ N ₆ O ₇
Molecular Weight:	500.59
Sequence Shortening:	PKEK
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



BIOLOGICAL ACTIVITY

Description	Tetrapeptide-30 is a skin-brightening peptide consisting of four amino acids. Tetrapeptide-30 can act as a tyrosinase inhibitor, lightening hyperpigmentation and evening out skin tone by reducing the amount of tyrosinase and inhibiting melanocyte activation ^[1] .
In Vitro	Tetrapeptide-30 (0-10 µg/mL, 24 h) can effectively reduce UVB-induced gene expression of IL-6, TNF-α and POMC (proopiomelanocorticotropin), and also decreased IL-8 gene expression in a dose-dependent manner ^[1] . Tetrapeptide-30 (PKEK) is highly hydrophilic and has good skin penetration in microemulsion ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alessandra Marini, et al. Modulation of skin pigmentation by the tetrapeptide PKEK: in vitro and in vivo evidence for skin whitening effects. *Exp Dermatol*. 2012 Feb;21(2):140-6.

[2]. Reinhard H H Neubert, et al. Dermal peptide delivery using enhancer molecules and colloidal carrier systems. Part II: Tetrapeptide PKEK. *Eur J Pharm Biopharm*. 2018 Mar;124:28-33.

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

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