

Ac-IHIHIQI-NH2

Cat. No.:	HY-P4147
CAS No.:	1582727-85-2
Molecular Formula:	C ₄₃ H ₇₁ N ₁₃ O ₉
Molecular Weight:	914.11
Sequence:	Ac-Ile-His-Ile-His-Ile-Gln-Ile-NH2
Sequence Shortening:	Ac-IHIHIQI-NH2
Target:	Others
Pathway:	Others
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	Ac-IHIHIQI-NH2 is a fibril-forming heptapeptide with high catalytic activity to laccase mimics. Ac-IHIHIQI-NH2 exhibits selectivity for hydrophobic p-nitrophenyl (ONp) ester substrates in the process of self-assembly ^{[1][2]} .
In Vitro	Ac-IHIHIQI-NH2 catalyzes p-nitrophenyl acetate (pNPA) hydrolysis in the presence of Zn ²⁺ with a k_{cat}/KM of 62 M ⁻¹ s ⁻¹ at pH 8 [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Liu Q, et al. Supramolecular enzyme-mimicking catalysts self-assembled from peptides. *iScience*. 2022 Dec 20;26(1):105831.
- [2]. Heier JL, et al. Substrate specificity of an actively assembling amyloid catalyst. *Biopolymers*. 2017 Jan;108(1).

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

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