HAMP protein, Larimichthys crocea

Cat. No.:	HY-P72221
Synonyms:	hamp; Hepcidin
Species:	Others
Source:	E. coli
Accession:	A1Z0M0 (R65-F85)
Gene ID:	104926498
Molecular Weight:	Approximately 2.5 kDa

PROPERTIES

AA Sequence	R C R F C C R C C P R M R G C G I C C R F
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	HAMP protein appears to function as a signaling molecule crucial for maintaining iron homeostasis, working in conjunction with HFE to regulate both intestinal iron absorption and iron storage in macrophages. Its antimicrobial properties are notable, demonstrating robust antibacterial activity against various Gram-negative bacteria, including V.alginolyticus, V.fluvialis, V.harveyis, and V.parahaemolyticus, with varying minimum inhibitory concentrations (MICs). Additionally, HAMP displays antibacterial activity against Gram-positive bacteria such as B.cereus, B.subtilis, C.glutamicum, M.luteus, M.lysodeikticus, S.aureus, and S.epidermis. Furthermore, it exhibits antifungal activity against A.niger, F.graminearum, and F.solani, while lacking antifungal effects against the yeasts P.pastoris GS115 and C.albicans. These diverse activities underscore the multifaceted role of HAMP in host defense mechanisms against microbial challenges.

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

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