

Hepcidin/HAMP Protein, Larimichthys crocea, Recombinant

General Information

Synonyms:	Hepcidin;hamp
Protein Construction:	65-85 aa
Species:	Larimichthys crocea
Expression Host:	E. coli
Accession:	A1Z0M0
Molecular Weight:	2.5 kDa (predicted)
AA Sequence:	RCRFCCRCCPRMRGCGICCRF

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Seems to act as a signaling molecule involved in the maintenance of iron homeostasis. Seems to be required in conjunction with HFE to regulate both intestinal iron absorption and iron storage in macrophages.; Has very strong antibacterial activity against the marine Gram-negative bacteria *V.alginolyticus* (MIC=24 μM), *V.fluvialis*, *V.harveyis* (MIC=12 μM) and *V.parahaemolyticus* (MIC=6 μM). Has antibacterial activity against the Gram-negative bacteria *A.hydrophila* (MIC=6 μM), *E.coli* (MIC=24 μM), and *E.coli* BL21(DE3)plysS (MIC=6 μM), and the Gram-positive bacteria *B.cereus* (MIC=24 μM), *B.subtilis* (MIC=6 μM), *C.glutamicum* (MIC=3 μM), *M.luteus* (MIC=3 μM), *M.*

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lysodeikticus, S.aureus (MIC=6 uM) and S.epidermis (MIC=12 uM). Possesses antifungal activity against A.niger (MIC=24 uM), F.graminearum (MIC24 uM) and F.solani (MIC=24 uM), but lacks antifungal activity against the yeasts P.pastoris GS115 and C.albicans.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481