Data Sheet (Cat.No.TMPH-03148)

DEFB126 Protein, Pongo pygmaeus, Recombinant (GST)

General Information

Synonyms: Beta-defensin 126;DEFB126;Defensin, beta 126

Protein Construction: 21-63 aa

Species: Pongo pygmaeus

Expression Host: P. pastoris (Yeast)

Accession: A4H244

Molecular Weight: 31.9 kDa (predicted)

AA Sequence: SWYVKKCLNDVGICKKKCKPEELHVKNGWAMCGKQRDCCVPAD

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

Highly glycosylated atypical beta-defensin involved in several aspects of sperm function. Facilitates sperm transport in the female reproductive tract and contributes to sperm protection against immunodetection; both functions are probably implicating the negative surface charge provided by its O-linked oligosaccharides in the sperm glycocalyx. Involved in binding of sperm to oviductal epithelial cells to form a sperm reservoir until ovulation. Release from the sperm surface during capacitation and ovaluation by an elevation of oviductal fluid pH is unmasking other surface components and allows sperm to penetrate the cumulus matrix and bind to the

zona pellucida of the oocyte. In vitro has antimicrobial activity and may inhibit LPS-mediated inflammation.

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