

DEFB1 Protein, Human, Recombinant

General Information

Synonyms:	Beta-Defensin 1;BD-1;HBD1;Defensin β 1;BD1;Defensin Beta 1; β -Defensin 1;hBD-1;DEFB1
Protein Construction:	Gly22-Lys68
Species:	Human
Expression Host:	E. coli
Accession:	P60022
Molecular Weight:	6 KDa (reducing condition)
AA Sequence:	Gly22-Lys68

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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM PB, 130 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

β -Defensin 1 (DEFB1) is a member of the β -defensin family, which is highly expressed by epithelial cells. β -defensins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal peptide. β -defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. β -defensin 1 is an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. Defects in β -Defensin-1 contribute to asthma diagnosis, with apparent gender-specific effects in human. β -

defensin 1 may also play a role in the pathogenesis of severe sepsis. In addition, β -defensin 1 is associated with induction profiles in gingival keratinocytes.

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