



Recombinant Protein Technical Manual
Recombinant Human β -Defensin 1/DEFB1 Protein
RPES3487

Product Data:

Product SKU: RPES3487

Size: 10 μ g

Species: Human

Expression host: E. coli

Uniprot: P60022

Protein Information:

Molecular Mass: 5.1 kDa

AP Molecular Mass: 6 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μ g as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 130mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Beta-Defensin 1; BD; hBD; Defensin Beta 1; DEFB1; BD1; HBD1

Immunogen Information:

Sequence: Gly22-Lys68

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 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.