



beta-Defensin 1 Recombinant Protein

CATALOG NUMBER: 91-108

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Gly22-Lys68
FUSION TAG:	Tag Free
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.

Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PREDICTED MOLECULAR WEIGHT:	5.07 kD
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 130mM NaCl, pH 7.4. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH ₂ O.
STORAGE CONDITIONS:	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Additional Info

ALTERNATE NAMES:	Beta-Defensin 1, BD-1, hBD-1, Defensin Beta 1, DEFB1, BD1, HBD1
ACCESSION NO.:	P60022

Background

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

FOR RESEARCH USE ONLY

December 14, 2016