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32-1061: BD 1 Recombinant Protein

Alternative Name :	Beta-defensin 1,BD-1,Defensin beta 1,hBD-1,HBD1,HBP1,DEFB1,HBD-1,HBP-1,DEFB101,DEFB-1,MGC51822.

Description

Source : Escherichia Coli. Beta Defensin-1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 47 amino acids and having a molecular mass of 5 kDa.The BD-1 is purified by proprietary chromatographic techniques. The Defensin family are highly similar in their protein sequence and are microbicidal & cytotoxic peptides made by neutrophils. Beta Defensin-1 is an antimicrobial peptide having the resistance of epithelial surfaces to microbial colonization. Beta Defensin-1 has close proximity to Defensin Alpha-1 and has been implicated in the pathogenesis of cystic fibrosis.Skin of patients having atopic dermatitis patients and mycosis fungoides (non-lesional and lesional) show lower human Beta Defensin-1 mRNA expression and higher human Beta Defensin-2 and human Beta Defensin-3 mRNA expression. Beta Defensin is highly expressed by epithelial cells. Beta-defensin 1 may play a role in the pathogenesis of severe sepsis. Variation in human Beta Defensin-1 contributes to asthma diagnosis, with apparent gender-specific effects. Human Beta Defensin-3 is a dimer, while Human BD-1 and Human BD-2 are monomeric. The expression of Human BD1 is correlated with induction profiles in gingival keratinocytes. The level of expression of human DEFB1 mRNA is lower than that of human BD3 and human BD-2 in reconstructed epidermis.Human BD1 is down-regulated in human prostatic and renal carcinomas.

Product Info

Amount :	20 µg
Purification :	Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Human BD-1 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM sodium chloride.
Storage condition :	Lyophilized Beta Defensin-1 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-1 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
Amino Acid :	GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCCK.

Application Note

It is recommended to reconstitute the lyophilized Beta Defensin-1 in sterile 18MÃ‚Â©-cm H2O not less than 100Ã‚Âµg/ml, which can then be further diluted to other aqueous solutions. Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 100-1000ng/ml corresponding to a specific activity of 1,000-10,000IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.