

Beta Defensin-1 Human Recombinant

Item Number	rAP-0354
Synonyms	Beta-defensin 1, BD-1, Defensin beta 1, hBD-1, HBD1, HBP1, DEFB1, HBD-1, HBP-1, DEFB101, DEFB-1, MGC51822.
Description	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.
Uniprot Accession Number	P60022
Amino Acid Sequence	GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCKK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	The Human BD-1 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM sodium chloride. Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Beta Defensin-1 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**