

Beta Defensin-2 Human Recombinant

Item Number	rAP-0355
Synonyms	BD-2, hBD-2, Defensin beta 2, Skin-antimicrobial peptide 1, SAP1, DEFB4, DEFB102, DEFB2, DEFB4P, Beta-defensin 2.
Description	Beta Defensin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 41 amino acids and having a molecular mass of 4.3 kDa. The BD-2 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	O15263
Amino Acid Sequence	GIGDPVTCLK SGAICHPVFC PRRYKQIGTC GLPGTKCKKK P.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Beta Defensin-2 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-2 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-2 was lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution containing 20mM PB pH-7.4 and 130mM NaCl. 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-2 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by the ability to chemoattract human dendritic immature cells at a concentration of 10-100ng/ml.
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**