

## Beta Defensin-4 Human Recombinant

<b>Item Number</b>	rAP-0356
<b>Synonyms</b>	HBD-4, DEFB-4, HBD4, DEFB104B, Beta-defensin 4, BD-4.
<b>Description</b>	Beta Defensin-4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 50 amino acids and having a molecular mass of 6 kDa. The BD-4 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	Q8WTQ1
<b>Amino Acid Sequence</b>	EFELDRICGY GTARCRKKCR SQEYRIGRCP NTYACCLRKW DESLLNRTKP.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Beta Defensin-4 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD-3 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	The DEFB4 (1mg/ml) was lyophilized with 20mM sodium Phosphate buffer pH-7.4 and 130mM NaCl. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Beta Defensin-4 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	Determined by its ability to chemoattract human monocytes using a concentration range of 0.1-50 ng/ml, corresponding to a specific activity of 20,000-10,000,000 units/mg.
<b>Shipping Format and Condition</b>	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**