

Human BD 1 Recombinant Protein



RPPB0068

Product Information Protein Information

Product SKU:

RPPB0068

Accession:

P60022

Host:

Escherichia Coli.

Protein 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.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

The Human BD-1 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM sodium chloride.

Purity:

Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Beta Defensin-1 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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 Sequence:

GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCKK.

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.