

## Beta-Defensin 1 (DEFB1) Active Protein | DEFB1 active protein

Recombinant Mouse Beta-Defensin 1 (DEFB1)

|                               |                       |                                          |
|-------------------------------|-----------------------|------------------------------------------|
| CATALOG #<br><b>AAA214324</b> | HOST<br><b>E Coli</b> | REACTIVITY<br><b>Mouse (M. musculus)</b> |
|-------------------------------|-----------------------|------------------------------------------|

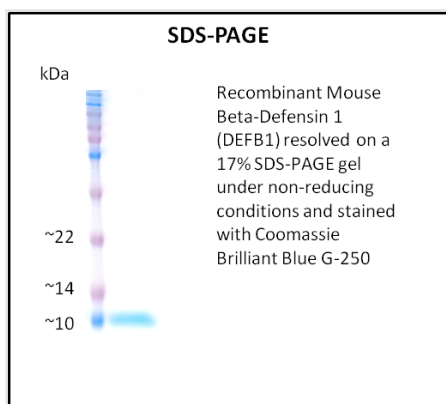
### PRODUCT SYNONYMS

Beta-Defensin 1 (DEFB1); Recombinant Mouse Beta-Defensin 1 (DEFB1); BD-1; mBD-1; Defensin; beta 1; DEFB1 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                              |
| Reactivity              | Mouse (M. musculus)                                                                                                                                                                                                                                                                                                                 |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Lyophilized from 0.2 um filtered 100mM NaCl, 20mM PB, pH 7.4                                                                                                                                                                                                                                                                        |
| Sequence Length         | 69                                                                                                                                                                                                                                                                                                                                  |
| Bioactivity             | The ED50 was Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 0.1-1.0 ug/mL.                                                                                                                                                                                                          |
| Endotoxin Level         | <1.0 EU/ug of recombinant protein as determined by the LAL method                                                                                                                                                                                                                                                                   |
| Reconstitution          | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.                                                                                                                                                            |
| Preparation and Storage | The lyophilized protein is stable for at least one year from date of receipt at -70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |

### IMAGES



Application Data

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for DEFB1 active protein | Defensins are a large family of peptides of which two groups exist in mammals: alpha defensins and beta defensins- which are distinguishable by the spacing and connectivity of the conserved cysteine residues within the mature peptides. It is thought that the function of defensins in the eradication of pathogens from the host system is to insert themselves into the bacterial membrane under the influence of membrane potential, in doing so forming channels which lead to leakage of cytoplasmic molecules and cell death. Human beta-defensin-1, which has 36 amino acids, was originally isolated from hemofiltrates of patients with advanced renal failure. The BD-1 gene is expressed mainly in the urogenital tract and, to a lesser degree, in trachea and lung, BD-1 is believed to function in the antimicrobial defense of the urogenital and respiratory tracts. |
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NCBI AND UNIPROT INFORMATION

|                                  |                 |
|----------------------------------|-----------------|
| NCBI GI #                        | 6681161         |
| NCBI GeneID                      | 13214           |
| NCBI Accession #                 | NP_031869.1     |
| NCBI GenBank Nucleotide #        | NP_031869.1     |
| UniProt Accession #              | P56386          |
| Molecular Weight                 | 5.0 kDa         |
| NCBI Official Full Name          | beta-defensin 1 |
| NCBI Official Synonym Full Names | defensin beta 1 |
| NCBI Official Symbol             | Defb1           |
| NCBI Official Synonym Symbols    | BD-1; AW260221  |
| NCBI Protein Information         | beta-defensin 1 |
| UniProt Protein Name             | Beta-defensin 1 |
| UniProt Gene Name                | Defb1           |
| UniProt Synonym Gene Names       | BD-1; mBD-1     |
| UniProt Entry Name               | DEFB1_MOUSE     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mouse-active-protein/beta-defensin-1-defb1/214324>