



# Recombinant Human Beta-defensin 1 (DEFB1)

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| <b>Product Code</b>      | CSB-YP006662HU                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Uniprot No.</b>       | P60022                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequence</b>          | DHYNCVSS GGQCLYSACP IFTKIQTGTCY RGKAKCCK                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target Names</b>      | DEFB1                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Names</b>     | Recommended name: Beta-defensin 1 Short name= BD-1 Short name= hBD-1<br>Alternative name(s): Defensin, beta 1                                                                                                                                                                                                                                                                                                                                         |
| <b>Expression Region</b> | 33-68                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Length</b>    | Cytoplasmic domain                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Target Details</b>    | Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 1, an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. This gene maps in close proximity to defensin family member, defensin, alpha 1 and has been implicated in the pathogenesis of cystic fibrosis. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.                                           |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                    |