

# Recombinant Mouse Beta Defensin-2 (rm BD-2)

**Synonyms:** Defensin beta 2 (DEFB2)

**Introduction:** The Defensin family are highly similar in their protein sequence and are microbicidal & cytotoxic peptides made by neutrophils. Skin of patients having atopic dermatitis, patients and mycosis fungoides (nonlesional and lesional) show lower human Beta Defensin-1 mRNA expression and higher human Beta Defensin-2 and human Beta Defensin-3 mRNA expression. Beta Defensin is highly expressed by epithelial cells.

**Description:** Recombinant mouse Beta Defensin-2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5.5 kDa. The BD-2 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder..

**Formulation:** Lyophilized from a 0.2µm filtered solution in PBS, pH-7.4.  
The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm BD-2 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm BD-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm BD-2 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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

**Amino Acid Sequence:** AVGSLKSIQY EAELDHCHTN GGYCVRAICP PSARRPGSCF PEKNPCCKYM K

**Biological Activity:** Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 10 - 100 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12344040
<i>medium</i>	20 µg	Cat.N°	12344044

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