

Active Recombinant Mouse Defb2 Protein (51 aa)

Cat. No. Defb2-036D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Defb2 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	51
Description	Defensins (alpha and beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The α-defensins are distinguished from the β-defensins by the pairing of their three disulfide bonds. To date, four β-defensins have been identified; BD-1, BD-2, BD-3 and BD-4. β-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they are chemoattractant towards immature dendritic cells and memory T cells. The β-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence and, in the case of BD-1 (36 a.a.), a propeptide region. β-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Determined Sterile Filtered White lyophilized (freeze-dried) powder.by its ability to chemoattract immature human dendritic cells using a concentration of 10.0-100.0 ng/mL.

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Molecular Mass	Approximately 5.54 kDa, a single non-glycosylated polypeptide chain containing 51 amino acids.
AA Sequence	AVGSLKSIGYEAELDHCHTNGGYCVRAICPPSARRPGSCFPEKNPCKYMK
Endotoxin	Less than 1 EU/mg of rMuBD-2 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Defb2 defensin beta 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Defb2
Synonyms	Defb2; defensin beta 2; BD-2; beta-defensin 2

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Gene ID	13215
mRNA Refseq	NM_010030
Protein Refseq	NP_034160
UniProt ID	P82020

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