

Recombinant Human DEFB103A protein, His-tagged

Cat. No. DEFB103A-85H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DEFB103A (Gly 23-Lys 67), fused with His tag at N-terminal, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly 23-Lys 67
Description	Beta-defensin 3 is a member of the defensin family. Defensin family is comprised by microbicidal and cytotoxic peptides made by neutrophils. Members of the beta-defensin 3 family are highly similar in protein sequence. Beta-defensin 3 shows antimicrobial activity against Gram-positive bacteria <i>S.aureus</i> and <i>S.pyogenes</i> , Gram-negative bacteria <i>P.aeruginosa</i> and <i>E.coli</i> and the yeast <i>C.albicans</i> . Beta-defensin 3 is abundantly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue. It is also expressed in salivary gland, bone marrow, colon, stomach, polyp and larynx. However, in small intestine, it cannot be detected. Defensin has broad spectrum antimicrobial activity and may play an important role in innate epithelial defense. Beta-defensin 3 kills multiresistant <i>S.aureus</i> and vancomycin-resistant <i>E.faecium</i> . It has no significant hemolytic activity.
Predicted N Terminal	Met
Form	Lyophilized from sterile 50mM Tris, 0.3% Ttiton X-100, 0.3% SKL, pH 8.51. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specific concentrations are included in the hardcopy of COA.2. Please contact us for any concerns or special requirements.

Molecular Mass

The recombinant human DEFB103A consists of 61 amino acids and predicts a molecular mass of 7.3 KDa. It migrates as an approximately 12 KDa band in SDS-PAGE under reducing conditions.

Purity

> 99 % as determined by SDS-PAGE

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name

DEFB103A defensin, beta 103A [Homo sapiens]

Official Symbol

DEFB103A

Synonyms

DEFB103A; defensin, beta 103A; DEFB3, DEFB103, defensin, beta 3; beta-defensin 103; DEFB 3; HBD 3; HBD3; HBP 3; HBP3; beta-defensin 3; defensin, beta 3; defensin, beta 103; defensin-like protein; BD-3; DEFB3; HBP-3; hBD-3; DEFB-3;

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	DEFB103;
Gene ID	414325
mRNA Refseq	NM_001081551
Protein Refseq	NP_001075020
MIM	
UniProt ID	P81534
Chromosome Location	8p23.1
Pathway	Beta defensins, organism-specific biosystem; Defensins, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;