

Recombinant Human DEFA1 protein, His & GST-tagged

Cat. No. DEFA1-1618H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DEFA1 aa. (Gln18~Cys94 (Accession # P59665)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln18~Cys94
Description	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. The protein encoded by this gene, defensin, alpha 1, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. Several alpha defensin genes are clustered on chromosome 8. This gene differs from defensin, alpha 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	5.7

GENE INFORMATION

Gene Name	DEFA1 defensin alpha 1 [Homo sapiens (human)]
Official Symbol	DEFA1
Synonyms	DEFA1; defensin alpha 1; HP1; MRS; DEF1; HP-1; DEFA2; HNP-1; neutrophil defensin 1; defensin, alpha 1, myeloid-related sequence; defensin, alpha 2; myeloid-related sequence
Gene ID	1667
mRNA Refseq	NM_004084.3

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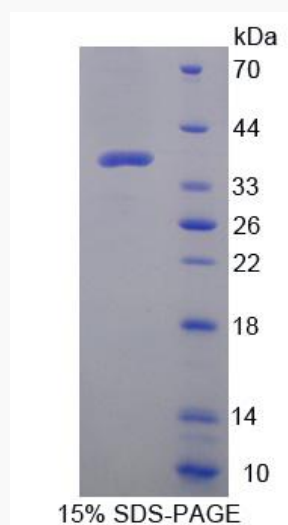
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Protein Refseq NP_004075.1

UniProt ID P59665

SDS-PAGE



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