

Recombinant Human DEFA1B protein, His & GST-tagged

Cat. No. DEFA1B-1142H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DEFA1B aa. (Glu20~Cys94 fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu20~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. Two transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	42kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 5.7.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	DEFA1B defensin alpha 1B [Homo sapiens (human)]
Official Symbol	DEFA1B
Synonyms	DEFA1B; defensin alpha 1B; HP1; HP-1; HNP-1; neutrophil defensin 1

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Gene ID	728358
mRNA Refseq	NM_001042500.1
Protein Refseq	NP_001035965.1
UniProt ID	P59665
SDS-PAGE	