Recombinant Human DEFA4 protein, His & GST-tagged

Cat. No. DEFA4-1143H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DEFA4 aa. (Gln23~Asp97 (Accession # P12838) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln23~Asp97
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. Several alpha defensin genes are clustered on chromosome 8. This gene differs from other genes of this family by an extra 83-base segment that is apparently the result of a recent duplication within the coding region. The protein encoded by this gene, defensin, alpha 4, is found in the neutrophils; it exhibits corticostatic activity and inhibits corticotropin stimulated corticosterone production.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.6kDa.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

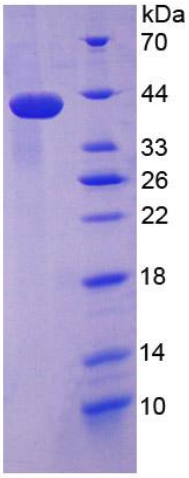
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Purity	>90%
Characteristic	The isoelectric point is 6.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein 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 100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	DEFA4 defensin alpha 4 [Homo sapiens (human)]
Official Symbol	DEFA4
Synonyms	DEFA4; defensin alpha 4; HP4; DEF4; HP-4; HNP-4; neutrophil defensin 4; corticostatin; defensin, alpha 4, corticostatin; defensin, alpha 4, preproprotein
Gene ID	1669

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mRNA Refseq	NM_001925.2
Protein Refseq	NP_001916.1
UniProt ID	P12838
SDS-PAGE	 15% SDS-PAGE

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