

Recombinant Human DEFA1, GST-tagged

Cat. No. DEFA1-2155H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human protein DEFA1 with GST-tag at N-terminal was produced in wheat germ expressions system in vitro and purified by Glutathione Sepharose 4 Fast Flow, 36.08 KDa.
Species	Human
Source	Wheat Germ
Description	Defensins are a family of microbicidal 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, alpha1, 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.
Amino Acid Sequence	MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHP GSRKSMDCYCRIPACIAGERRYGTCTIYQGRLWAFCC
Note	Best use within three months from the date of receipt of this protein.
Applications	ELISA; WB; Antibody Production; Protein Array

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Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0 in the elution buffer.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name DEFA1 defensin, alpha 1 [Homo sapiens]

Official Symbol DEFA1

Synonyms DEFA1; defensin, alpha 1; HP1; MRS; DEF1; HP-1; DEFA2; HNP-1; DEFA1B; MGC138393; neutrophil defensin 1; defensin, alpha 2; myeloid-related sequence; defensin, alpha 1, myeloid-related sequence; OTTHUMP00000196017

Gene ID 1667

mRNA Refseq NM_004084

Protein Refseq NP_004075

MIM 125220

UniProt ID P59665

Chromosome Location 8p23.1

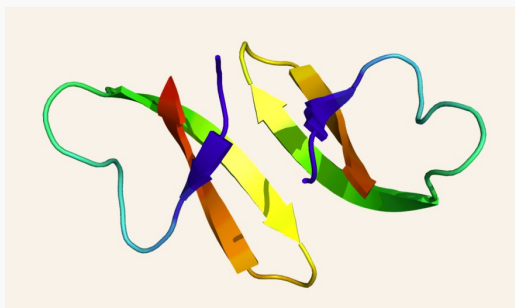
Pathway Alpha-defensins; Cellular roles of Anthrax toxin; Defensins; Immune System; Innate Immune System

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PDBrendering based
on 1dfn.



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