

Product datasheet for **TP723336**

alpha Defensin 1 (DEFA1) (NM_004084) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human defensin, alpha 1 (DEFA1).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	ACYCRIPACIAGERRYGYCIYQGRLWAFCC
Tag:	Tag Free
Predicted MW:	3.4 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0-10.0 ng/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_004075
Locus ID:	1667
UniProt ID:	P59665
RefSeq Size:	490
Cytogenetics:	8p23.1
RefSeq ORF:	282
Synonyms:	DEF1; DEFA2; HNP-1; HP-1; HP1; MRS



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Summary:

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. [provided by RefSeq, Oct 2014]

Protein Families:

Druggable Genome, Secreted Protein