

Product datasheet for PH318421

alpha Defensin 1 (DEFA1) (NM_004084) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DEFA1 MS Standard C13 and N15-labeled recombinant protein (NP_004075)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218421
Predicted MW:	10 kDa
Protein Sequence:	>RC218421 representing NM_004084 Red =Cloning site Green =Tags(s) MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRI PACIAGERRYGTCTIYQGRLWAFCC TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004075
RefSeq Size:	490
RefSeq ORF:	282
Synonyms:	DEF1; DEFA2; HNP-1; HP-1; HP1; MRS
Locus ID:	1667
UniProt ID:	P59665
Cytogenetics:	8p23.1



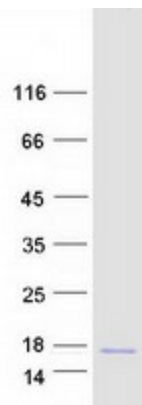
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Summary:

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

Product images:

Coomassie blue staining of purified DEFA1 protein (Cat# [TP318421]). The protein was produced from HEK293T cells transfected with DEFA1 cDNA clone (Cat# [RC218421]) using MegaTran 2.0 (Cat# [TT210002]).