

DEFA1

Recombinant Human NP-1

Catalog No.	CRN400B	Quantity:	20 µg
Alternate Names:	Neutrophil defensin 1, Defensin alpha 1, HNP-1		
Description:	Defensins (α and β) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The α -defensins which include NP-1, NP-2 and NP-3, are distinguished from the β -defensins by the pairing of their three disulfide bonds. In addition to antimicrobial activity, NP-1 exhibits chemotactic activity on dendritic cells. NP-1 is expressed as the C-terminal portion of an inactive precursor protein, which also contains a 19 amino acid N-terminal signal sequence and a 45 amino acid polypeptide. NP-1 contains a six-cysteine motif that forms three intra-molecular disulfide bonds.		
UniProt ID:	P59665		
Gene ID:	1667		
Source:	<i>E. coli</i>		
Molecular Weight:	3.4 kDa (30 aa)		
Formulation:	Lyophilized from PBS		
Purity:	> 98% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	Determined by its ability to chemoattract immature dendritic cells using a concentration range of 1.0-10.0 ng/ml.		
Amino Acid Sequence:	ACYCRIPACI AGERRYGYCI YQGRLWAFCC		
Reconstitution:	Centrifuge vial prior to opening. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		
Storage & Stability:	Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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