

NP-1, Human Recombinant

CATALOG NO:	P1333-5 P1333-20	5 µg 20 µg
ALTERNATE NAMES:	Neutrophil Peptide-1, alpha Defensin-1, HNP-1, Cryptdin, Vascular endothelial cell growth factor 165 receptor, CD304, NRP, VEGF165R, NRP1, neuronal pentraxin-1, NP1, NPTX1	
SOURCE:	E. coli	
PURITY:	≥ 98% by SDS-PAGE analysis	
MOL. WEIGHT:	3.4 kDa	
ENDOTOXIN LEVEL:	<0.1 EU/µg endotoxin, tested	
FORM:	Lyophilized	
STORAGE CONDITIONS:	Store at -20°C. Avoid repeated freezing and thawing cycles.	
BIOLOGICAL ACTIVITY:	Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0-10.0 ng/ml	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.	
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. Recombinant human NP-1 is a 3.4 kDa protein containing 30 amino acid residues.	

RELATED PRODUCTS:

- Human CellExp™ VEGF-B, human recombinant (**Cat. No. 7230**)
- Human CellExp™ CD304 / NRP1 / Neurophilin-1, human recombinant (**Cat. No. 7375**)
- Neuropilin-1 Blocking Peptide (**Cat. No. 3856BP**)
- Neuropilin-1 Antibody (**Cat. No. 3856**)

FOR RESEARCH USE ONLY! Not to be used on humans.