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**Product Data Sheet**


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Product Name: NPPA Human  
 Cat. No.: GP20790  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Natriuretic peptides A; CDD-ANF; Cardiodilatin; CDD; Cardiodilatin-related peptide; CDP; N-terminal proatrial natriuretic peptide; ANP; PND.		
Amino Acid Sequence	MKHHHHHHNP MYNAVSNADL MDFKNLLDHL EEKMPLEDEV VPPQVLSEPN EEAGAALSPL PEVPPWTGEV SPAQRDGGAL GRGPWDSSDR SALLKSKLRA LLTAPR.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. NPPA is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	NPPA filtered (0.4 µm) and lyophilized from 0.5mg/ml in 20 mM Tris buffer, 50 mM NaCl and 5% w/v trehalosa, pH 7.5.		

**Introduction**

Natriuretic Peptide A (NPPA) is a part of the natriuretic peptide family and is involved in cardiovascular homeostasis through regulation of natriuresis, diuresis, and vasodilation. NPPA is synthesized as a great precursor which releases a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. In female pregnancy, NPPA is promoting trophoblast invasion and spiral artery remodeling in uterus.

**Stability**

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

NPPA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 26-123) containing 106 amino acids including an 8 a.a N-terminal His tag. The total molecular mass is 11.7kDa (calculated).

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