

N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP) Recombinant Protein | NT-ProBNP recombinant protein

Recombinant N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP)

CATALOG # AAA149274	HOST E.coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
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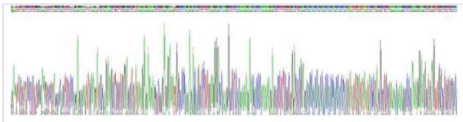
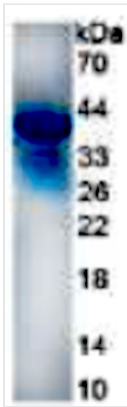
PRODUCT SYNONYMS

N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP); Recombinant N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP); NT-Pro-BNP; ; N-BNP; NT-ProBNP recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 80%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose
Concentration	Original Concentration: 700ug/mL (varies by lot)
Applicable Applications for NT-ProBNP recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Tyr27~Arg76
Tags	N-terminal His and GST Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	9.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Identification
Gene Sequencing (extract)

SDS-PAGE

YPLGSPSQSQPEQFK MQKLELIRE
KSEEMAQRQL LKDQGLTKEHPKRVLR

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for NT-ProBNP recombinant protein Endocrinology; Cardiovascular biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	565671787
NCBI GeneID	18158
NCBI Accession #	NP_001274277.1
NCBI GenBank Nucleotide #	NM_001287348.1
UniProt Accession #	P40753
Molecular Weight	Predicted Molecular Mass: 35.9kDa Accurate Molecular Mass: 40kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	natriuretic peptides B isoform 2 preproprotein
NCBI Official Synonym Full Names	natriuretic peptide type B
NCBI Official Symbol	Nppb
NCBI Official Synonym Symbols	BNF; BNP; AA408272
NCBI Protein Information	natriuretic peptides B
UniProt Protein Name	Natriuretic peptides B
UniProt Gene Name	Nppb
UniProt Synonym Gene Names	BNP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.