NKMAXBio We support you, we believe in your research

Recombinant human BNP protein

Catalog Number: BNP0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-134aa

UniProt No.
P16860

NCBI Accession No.
NP_002512.1

Alternative Names
Brain natriuretic peptide (type B natriuretic peptide), NPPB, GC-B, Brain natriuretic peptide (type B natriuretic peptide), BNP, Brain natriuretic peptide (type B natriuretic peptide) Gamma brain natriuretic peptide, Natriuretic peptide precursor B, Natriuretic peptides B,

PRODUCT SPECIFICATION

Molecular Weight
14 kDa (129aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) 40% glycerol, 2mM DTT, 0.1mM PMSF, 1mM EDTA

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
BNP (Brain natriuretic peptide) is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. BNP is a 32 amino acid polypeptide and is co-secreted along with a 76

Recombinant human BNP protein

Catalog Number: BNP0801

amino acid N-terminal fragment which is biologically inactive. This protein has biological actions including natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion. It is thought to play a key role in cardiovascular homeostasis. A high concentration of this protein in the bloodstream is indicative of heart failure. Recombinant human BNP, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

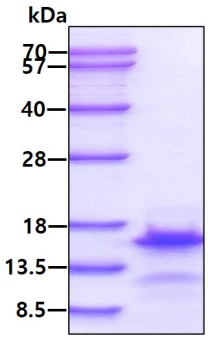
<MGSSHHHHHH SSGLVPRGSH M>HPLGSPGSA SDLETSGLQE QRNHLQGKLS ELQVEQTSLE PLQESPRPTG VWKSREVATE GIRGHRKMVL YTLRAPRSPK MVQGSGCFGR KMDRISSSSG LGCKVLRRH

General References

Harada H., et al. (1989) Cell. 58(4):729-739
Matsuyama T., et al. (1993) Cell 75(1):83-97

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.