



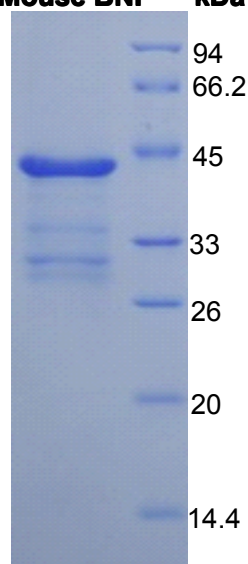
P90541Mu02
Brain Natriuretic Peptide (BNP)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

[DESCRIPTION]

Mouse BNP



15% SDS-PAGE

Protein Names: Brain Natriuretic Peptide

Synonyms: BNP

Species: Mouse

Size: 10 μ g

Source: *Escherichia coli*-derived

Subcellular Location: Secreted.

[PROPERTIES]

Residues: Tyr27~Leu121 (Accession # P40753), with two N-terminal Tags, His-tag and GST-tag.

Grade & Purity: >92%, 44kDa as determined by SDS-PAGE reducing conditions.

Formulation: Supplied as lyophilized form in PBS, pH 7.4, containing 0.01% Sarcosyl, 5% sucrose.

Endotoxin Level: <1.0 EU per 1 μ g (determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 37.9 kDa

SDS-PAGE is a technique that separates proteins based on size. However, the actual band size observed may differ from the predicted; the common factors may include three terms:

1. Alternative splicing (splice variants).
2. The composition of amino acids may give the protein the different relative charge.
3. Polymerization of the target protein.



Predicted isoelectric point: 8.9

[PREPARATION]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with two N-terminal Tags, His-tag and GST-tag, its sequence is listed below.

MRNKKFELGL EFPNLPYYID GDVKLTQ SMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV
DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCVK KRIEAIQID KYLKSSKYIA
WPLQGQWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR GSTAIGMKET AAKFERQHM DSPDLGTLEV
LFQGPLGSEF-YPLG SPSQSPEQFK MQKLELIRE KSEEMAQRQL LKDQGLTKEH PKRVLRSQGS TLRVQQRPN SKVTHISSCF
GHKIDRIGSV SRLGCNALKL L

[REFERENCES]

1. Thireau J., *et al.* (2012) *Cardiovasc. Res.* 95:59-68.
2. Toischer K., *et al.* (2010) *Basic Res. Cardiol.* 105:795-804.
3. Kuwahara K., *et al.* (2010) *Mol. Cell. Biol.* 30:4134-4148.
4. Raskin A.M., *et al.* (2009) *Mol Cell Biomech* 6:145-159.

