Recombinant Human BNP
Catalog # CM29
Derived from E.coli

DESCRIPTION
Recombinant Human Brain-type Natriuretic Peptide is produced by our E.coli expression system and the target
gene encoding His27-Arg102 is expressed with a 6His, Flag tag at the N-terminus.
Accession #: P16860
Known as: Natriuretic peptides B; Gamma-brain natriuretic peptide; NPPB; BNP

FORMULATION
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.

SHIPPING
The product is shipped at ambient temperature.
Upon receipt, store it immediately at the temperature listed below.

STORAGE
Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

RECONSTITUTION
Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration less than 100μg/ml.
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

QUALITY CONTROL
Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

AMINO ACID SEQUENCE
MNHKVHHHHHHHMDYKDDDDKHPLGSPGSASDLETSLQEGQRNHLQGKSELQVEQTSLEPLQESPRPTGVWKSREVATEGIRS
HGRKMVLYTLRPR

BACKGROUND
Brain-type Natriuretic Peptide (BNP) is a nonglycosylated peptide that is produced predominantly by
ventricular myocytes and belongs to the natriuretic peptide family. Proteolytic cleavage of the 12 kDa BNP
precursor gives rise to N-terminal Pro BNP (NT-proBNP) and mature BNP. N-terminal proB-type natriuretic
peptide (NT-proBNP), a useful marker of heart failure (HF), is considered to be secreted mainly from the
ventricle, increased serum NT-proBNP levels are also encountered in conditions such as atrial fibrillation (AF)
and atrial septal defect in patients without HF.

SDS-PAGE