



# Recombinant Protein Technical Manual

## Recombinant Human Brain Natriuretic Peptide/BNP Protein (His & Flag Tag)

RPES3587

### Product Data:

**Product SKU:** RPES3587

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P16860

### Protein Information:

**Molecular Mass:** 11.0 kDa

**AP Molecular Mass:** 14 kDa

**Tag:** N-6His-Flag

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Natriuretic peptides B; Gamma-brain natriuretic peptide; NPPB; BNP

## Immunogen Information:

**Sequence:** His27-Arg102

## 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.