

BNP

Catalog # PVGS1049

Product Information

Primary Accession P16860
Species Human

Sequence Ser103-His134

Purity > 97% as analyzed by SDS-PAGE

> 97% as analyzed by HPLC

Endotoxin Level

Expression System E. coli

Theoretical Molecular Weight 3.5 kDa

Formulation Lyophilized from a 0.2 \(\text{Im filtered solution in PBS, pH 7.4.} \)

Reconstitution It is recommended that this vial be briefly centrifuged prior to opening to

bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a

concentration of 0.1-1.0 mg/ml.

Storage & Stability Upon receiving, this product remains stable for up to 6 months at -70°C or

-20°C. Upon reconstitution, the product should be stable for up to 1 week at

4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID 4879

Other NamesNatriuretic peptides B, Brain natriuretic factor prohormone, preproBNP,

BNP(4-32), BNP(4-31), BNP(4-30), BNP(4-29), BNP(4-27), BNP(5-32), BNP(5-31),

BNP(5-29), NPPB

Target Background Natriuretic Peptide Precursor B acts as a cardiac hormone with a variety of

biological actions including natriuresis, diuresis, vasorelaxation, and inhibition

of renin and aldosterone secretion. It is thought to play a key role in

cardiovascular homeostasis. Helps restore the body's salt and water balance.

Improves heart function.

Protein Information

Name NPPB

Function [Brain natriuretic peptide 32]: Cardiac hormone that plays a key role in

mediating cardio-renal homeostasis (PubMed:1672777, PubMed:17372040, PubMed:1914098, PubMed:9458824). May also function as a paracrine antifibrotic factor in the heart (By similarity). Acts by specifically binding and stimulating NPR1 to produce cGMP, which in turn activates effector proteins that drive various biological responses (PubMed:1672777, PubMed:17349887, PubMed:17372040, PubMed:21098034, PubMed:25339504, PubMed:9458824). Involved in regulating the extracellular fluid volume and maintaining the fluid- electrolyte balance through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion (PubMed:1914098, PubMed:9458824). Binds the clearance receptor NPR3 (PubMed:16870210).

Cellular Location

[NT-proBNP]: Secreted Note=Detected in blood. [Brain natriuretic peptide 32]:

Secreted. Note=Detected in blood.

Tissue Location

[Brain natriuretic peptide 32]: Detected in the cardiac atria (at protein level) (PubMed:2136732, PubMed:2138890) Detected in the kidney distal tubular cells (at protein level) (PubMed:9794555).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.