

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Natriuretic Peptide B is synthesized as a 134 residue preprohormone before a signal peptide is cleaved, creating a storage protein which is further cleaved into the 32 residue, biologically active peptide that is secreted into the blood. NPPB was first discovered in porcine brain, but is produced mainly by cardiac ventricle cells in humans. It acts as a cardiac hormone with a variety of functions including natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Additionally, it plays a key role in cardiovascular homeostasis, helps restore the body's salt and water balance, and improves heart function. NPPB also has antimicrobial properties against Gram-positive and Gram-negative bacteria as well as yeast in a dose-dependent manner.

Catalog Number	1170-09
Product Name	NPPB, Human Recombinant Human Natriuretic Peptide B (NPPB) Natriuretic Peptide Precursor B Brain Natriuretic Peptide (BNP) Aldosterone Secretion Inhibitory Factor (ASIF) Ventricular Natriuretic Peptide BNP-32
Source	<i>Escherichia coli</i>
MW	~3.5 kDa (32 amino acids)
Sequence	SPKMQVQSGSG FGRKMDRISS SSGLGCKVLR RH
Accession Number	P16860
Purity	>97% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.