

Recombinant Human BNP

Cat. No. BNP-71H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Brain Natriuretic Peptide was expressed in Yeast.
Species	Human
Source	Yeast
Description	Brain natriuretic peptide is 32 amino acid polypeptide secreted by the ventricles of the heart in response to excessive stretching of heart muscle cells (cardiomyocytes). BNP is named as such because it was originally identified in extracts of porcine brain, although in humans it is produced mainly in the cardiac ventricles. BNP is co-secreted along with a 76 amino acid N-terminal fragment (NT-proBNP) which is biologically inactive. BNP binds to and activates the atrial natriuretic factor receptors NPRA, and to a lesser extent NPRB, in a fashion similar to atrial natriuretic peptide (ANP) but with 10-fold lower affinity. The biological half-life of BNP, however, is twice as long as that of ANP, and that of NT-proBNP is even longer, making these peptides better targets than ANP for diagnostic blood testing.
Form	Lyophilized from sterile 20mM PB, 240mM NaCl, pH 6.0.
Molecular Mass	13.4kDa
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE

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Applications

Western blotting, ELISA

Storage

Store it under sterile conditions at -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -80°C.

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