Recombinant Human Brain Natriuretic Peptide

Catalog No: #AP60107

Package Size: #AP60107-1 100ug #AP60107-2 500ug

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Description

Product Name	Recombinant Human Brain Natriuretic Peptide
Host Species	Escherichia coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	Brain natriuretic peptide 32, Gamma-brain natriuretic peptide, B-type Natriuretic Peptide, GC-B, BNP-32
Uniprot	P16860
GeneID	4879
Calculated MW	Approximately 3.5 kDa, a single non-glycosylated polypeptide chain containing 32 amino acids.
Target Sequence	SPKMVQGSGC FGRKMDRISS SSGLGCKVLR RH
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Background

Brain Natriuretic Peptide is encoded by the BNP gene located on the Chr.1 in humans. It is firstly discovered in the porcine brain and given this name, but the protein is mainly expressed in the cardiac ventricles in human body after the excessive stretching of cardiomyocytes. The gene expresses a 134 a.a. sequence which contains a 1-26 a.a. signal peptide and 27-134 a.a. Natriuretic peptides B, and the BNP is the 32 a.a. C-terminus of natriuretic peptides B. The BNP can be cleaved in 16 chains and the rHuBNP is 1-32. BNP acts as a cardiac hormone with a variety of functions including natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Additionnaly, it plays a key role in cardiovascular homeostasis, helps restore the body's salt and water balance and improves heart function.

Note: This product is for in vitro research use only