



Human NPPB peptide (DAG276)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Human pro-Brain Natriuretic Peptide (proBNP) (amino acids 1–108), Recombinant. Recombinant Human proBNP (BNP precursor). Does not contain a fusion partner.
Antigen Description	Brain natriuretic peptide (BNP), now known as B-type natriuretic peptide (also BNP) or GC-B, is a 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.
Species	Human
Conjugate	Unconjugated
Applications	Suitable for use in Immunoassays, Western blot and immunogen for antibody production. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not be
Format	Purified, Liquid
Concentration	1 mg/ml
Buffer	PBS, pH 7.5
Preservative	None
Storage	2–8°C short term, –20°C long term

BACKGROUND

Introduction	Cardiac hormone which may function as a paracrine antifibrotic factor in the heart. Also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3.
Keywords	BNP; natriureticpeptides B; OTTHUMP00000002506; natriuretic protein; brain type natriureticpeptide; gamma-brain natriuretic peptide; natriuretic peptide precursor B

GENE INFORMATION

Entrez Gene ID	4879
UniProt ID	P16860