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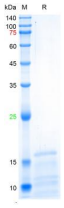
Recombinant human NT-proBNP protein, His

Catalog Number:	bs-10879P
Concentration:	＞0.5 mg/ml
AA Seq:	27-102/134
Predicted MW:	9.3
Detected MW:	10 kDa
Tags:	His
Activity:	Not tested
Endotoxin:	Not analyzed
Purity:	>95% as determined by SDS-PAGE
Purification:	AC
Form:	Lyophilized or Liquid
Storage:	20mM Tris-HCl (pH8.0) with 150mM NaCl. Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	Brain natriuretic peptide (BNP), also known as B-type natriuretic peptide, is a hormone secreted by cardiomyocytes in the heart ventricles in response to stretching caused by increased ventricular blood volume. The 32-amino acid polypeptide BNP is secreted attached to a 76–amino acid N-terminal fragment in the prohormone called NT-proBNP (BNPT), which is biologically inactive. Once released, BNP binds to and activates the atrial natriuretic factor receptor 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.

VALIDATION IMAGES



The purity of the protein is greater than 30% as determined by reducing SDS-PAGE.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.711] Ji J et al. Porous hydrogel encapsulated photonic barcodes for multiplex detection of cardiovascular biomarkers. ACS Sens. 2019 Apr 19. Other ; . 30985109