



S-1136 Human BNP-32 ELISA [UniProt: P16860]

The natriuretic peptide family consists of three biologically active peptides: atrial natriuretic peptide (ANP), brain (or B-type) natriuretic peptide (BNP), and C-type natriuretic peptide (CNP). Among these, ANP and BNP are secreted by the heart and act as cardiac hormones. Both ANP and BNP preferentially bind to natriuretic peptide receptor-A (NPR-A) and exert similar effects. Expression and secretion of ANP and BNP are stimulated by various factors and are regulated via multiple signaling pathways. The human BNP precursor proBNP is proteolytically processed to BNP₁₋₃₂ and N-terminal proBNP (NT-proBNP) within ventricular myocytes. Uncleaved proBNP as well as mature BNP₁₋₃₂ and NT-proBNP is secreted from the heart, and its secretion is increased in patients with heart failure.

This ELISA was developed with serum from rabbits immunized with BNP-32 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number: A16916

Host species: Rabbit IgG

Quantity: 96 tests

Format: Formulated for extracted samples (EIAH type).

Shelf-life: One year from production date. Store refrigerated at 4° - 8°C.

Applications: This ELISA has been validated with the included reagents. It is intended

to be used with appropriately extracted samples (original protocol III,

Std.Ab1hr.Bt). For research use only.

Please see www.bma.ch for protocols and general information.

Range: 0 - 10ng/ml **Average IC50:** 0.4ng/ml

Immunogen: Synthetic peptide H-Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-Cys-Phe-Gly-

Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-Ser-Gly-Leu-Gly-Cys-Lys-Val-Leu-

Arg-Arg-His-OH, (Disulfide bond) coupled to carrier protein.

Cross-Reactivity:

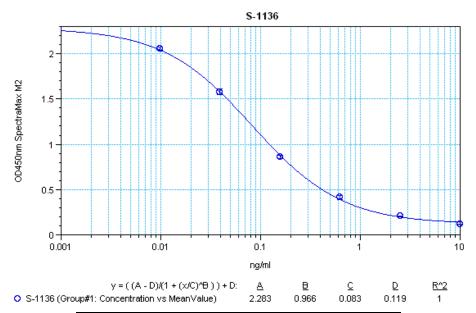
PEPTIDE	%
BNP-32 (human)	100
BNP-32 (rat)	0.04
BNP-45 (rat)	0
BNP-26 (porcine)	0
ANF (1-28) (human)	0
Endothelin-1 (human, canine, porcine, rat, mouse, bovine)	0

Cross-Reactivity (continued):

PEPTIDE	%
Angiotensin II (human)	0
VIP (human, bovine, porcine, rat)	0

Cross reactivity data is based on corresponding RIA kit.

Typical titration curve of human BNP-32 in a competitive ELISA with this antibody:



Suggested Preparation of Standards			
	ng/ml	Range: 0.01 to 10ng/ml	
Stock	1000		
S1	10.00	Add 10µl Stock + 990µl diluent	
S2	2.50	Add 200µl S1 + 600µl diluent	
S3	0.63	Add 200µl S2 + 600µl diluent	
S4	0.16	Add 200µl S3 + 600µl diluent	
S5	0.04	Add 200µl S4 + 600µl diluent	
S6	0.01	Add 200µl S5 + 600µl diluent	
S0	0.00	500µl diluent	

Related Products: S-1194: BNP-32 ELISA, extraction-free, for human samples.

T-4022: purified rabbit IgG T-4023: neat rabbit antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

S-1136 EIAH – hu 21.7.2020