

Technical Information

NT-proBNP (1-76)

Cat. No.:	SK-1204
Tests:	96
Method:	ELISA
Range:	0 – 640 pmol/l
LLOQ:	3.3 pmol/l (STD2 10 pmol/l)
Incubation time:	3 h / 30 min
Sample volume:	50 µl
Sample type:	Serum, EDTA plasma
Sample preparation:	Centrifuge freshly collected blood as soon as possible. Store centrifuged samples at -20°C for longer storage. Samples are stable up to 3 freeze and thaw cycles. Hemolyzed or lipemic samples may cause erroneous results.

Reference values: Median Serum (n=70): 5.8 pmol/l
Median EDTA plasma (n=28): 5.6 pmol/l

Species: Human

Intended use:

BNP is mainly expressed by ventricular myocardium in response to volume overload and increased filling pressure. BNP has a cleavable signal sequence. Mature BNP consists of 108 amino acids (proBNP or BNP-108), and undergoes cleavage resulting in physiologically active BNP-32 and additional C-terminal fragments (cf. http://www.uniprot.org/uniprot/P16860#PRO_0000001532), along with a physiologically inactive N-terminal peptide comprising amino acids 1-76, which is further degraded proteolytically. BNP has a key role in cardiovascular homeostasis with biological actions including natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. A high concentration of BNP in the bloodstream is indicative of heart failure.

Intended applications:

- Cardiac impairment, acute myocardial infarction, (left ventricular dysfunction)
- Renal failure
- Obesity and diabetes
- Various forms of secondary hypertension
- Therapy monitoring of heart failure patients

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