

For Research Use Only

Recombinant Human Natriuretic peptides B/NPPB protein (His Tag)



Catalog Number: Eg1029

Basic Information

ED50:
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GeneID:
4879

Species:
Human

Accession:
P16860

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Natriuretic peptides B protein His27-His134 (Accession# P16860) with a his tag at the N-terminus.

Predicted Molecular Mass:
12.7 kDa

SDS-PAGE:
16-26 kDa, reducing (R) condition

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

NPPB, also known as B-type natriuretic peptide (BNP), is a cardiac hormone that is secreted mainly in the ventricles in response to increased wall stress. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. BNP is a marker of systolic and diastolic dysfunction and a strong predictor of mortality in heart failure patients.

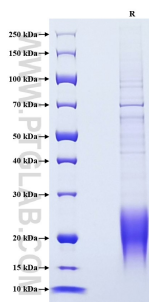
References

1. K J Koller, et al. (1991) Science. 252(5002):120-3.
2. Denise M Heublein, et al. (2007) Hypertension. 49(5):1114-9.
3. Brenda K Huntley, et al. (2015) Circ Heart Fail. 8(1):89-97.

Synonyms

Natriuretic peptides B,NPPB,BNP,BNP(1-32),BNP(1-28)

Selected Validation Data



Purity of Recombinant Human Natriuretic peptides B was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) condition and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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