Recombinant ANPRB protein (His tag)

Catalog Number	539832
Synonyms	Atrial natriuretic peptide receptor type B; ANP-B; ANPR-B; NPR-B; Guanylate cyclase B; GC-B
Species	Human
Expression System	E. coli
Accession	P20594
Molecular Weight	Predictes a molecular mass of 50.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	23-458
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 23-458 aa (P20594) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a stable and soluble fragment (residues 23-458) of human Atrial Natriuretic Peptide Receptor 2 (NPR2), a key membrane receptor with guanylate cyclase activity. This fragment is ideal for structural studies, biochemical assays, and functional investigations of CNP hormone signaling pathways. Atrial Natriuretic Peptide Receptor 2 (NPR2), also known as Guanylate Cyclase B, functions as the specific receptor for C-type natriuretic peptide (NPPC/CNP). Upon ligand binding, it exhibits guanylate cyclase activity and plays a critical role in regulating skeletal growth. The full-length protein is located in the cell membrane as a single-pass type I membrane protein, where it mediates important hormonal signaling pathways involved in cardiovascular and skeletal biology.