

Cynomolgus NPR3 Protein; His Tag

Product Information

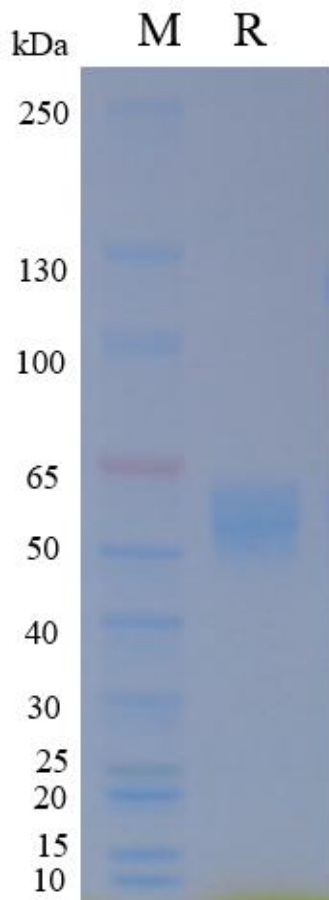
Product Name	Cynomolgus NPR3 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88853RP-100 / 100 μg GM-88853RP-1000 / 1 mg

Protein Information

Alternative Names	ANPRC, BOMOS, C5orf23, GUCY2B, NPR-C, NPRC
Source	Cynomolgus NPR3 Protein; His Tag (GM-88853RP) is expressed from human 293 cells (HEK-293). It contains AA Gly27-Ser482 (Accession # A0A2K5VGJ7). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	51.3 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	NPR3 protein, full name Natriuretic Peptide Receptor 3, also known as Natriuretic Peptide Clearance Receptor or NPR-C, is an important cell membrane receptor protein and a member of the natriuretic peptide receptor family. NPR3 protein plays a crucial role in regulating cardiovascular homeostasis, fluid balance, and blood pressure by serving as a clearance receptor that binds and internalizes atrial and brain natriuretic peptides (ANP and BNP), thereby modulating their circulating levels and biological half-lives. Currently, several NPR3-targeted therapeutic strategies are under preclinical or clinical investigation, including monoclonal antibodies and small-molecule modulators designed to modulate NPR3 clearance activity, thereby regulating natriuretic peptide levels and improving cardiovascular outcomes. These agents aim to restore fluid balance and reduce cardiac stress by fine-tuning NPR3-mediated peptide clearance. In summary, NPR3 protein plays a pivotal role in cardiovascular physiology and disease pathophysiology, and is of great significance for understanding the mechanisms of fluid regulation, identifying novel therapeutic targets for cardiovascular and metabolic diseases, and evaluating patient prognosis in related clinical settings.

Version:4.0

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.