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Product Sheet

Human NPR2 Protein; His Tag

GM-88537RP-100 / 100 μg
GM-88537RP-1000 / 1 mg

Product Information

Product Name	Human NPR2 Protein; His Tag
Source	Human NPR2 Protein; His Tag (GM-88537RP) is expressed from human 293 cells (HEK-293). It contains AA Arg 23 - Ile 458 (Accession # P20594-1). This protein carries a His tag at the C-terminus.
Predicted MW	49.3 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	AMD1, AMDM, ANPRB, ANPb, ECDM, GC-B, GCB, GUC2B, GUCY2B, NPRB, NPRBi, SNSK
Background	NPR2 (natriuretic peptide receptor B, NPR-B; guanylyl cyclase B) is a homodimeric single-pass transmembrane receptor guanylyl cyclase. It comprises an extracellular ligand-binding domain, a transmembrane helix, an intracellular kinase homology domain, a coiled-coil dimerization region and a C-terminal guanylyl cyclase domain. Activated preferentially by C-type natriuretic peptide, NPR2 converts GTP to cGMP, engaging cGMP-dependent protein kinase II to antagonize FGFR3-MAPK signaling. In growth plate chondrocytes, this axis drives proliferation and hypertrophic differentiation, making NPR2 a central determinant of longitudinal bone growth. Biallelic loss-of-function variants cause acromesomelic dysplasia, Maroteaux type, heterozygous variants cause proportionate short stature, and gain-of-function variants cause tall stature.

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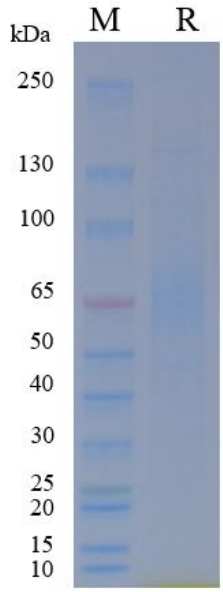
For research use only!

Data

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

RXFP1	
H_RXFP1 Reporter 293 Cell Line	
APJ	
H_APJ Reporter HEK-293 Cell Line	
NPR1	
H_NPR1 Reporter Cell Line	Cynomolgus_NPR1 CHO-K1 Cell Line
Flag-Mouse_NPR1 CHO-K1 Cell Line	H_NPR1 CHO-K1 Cell Line
H_NPR1 HEK-293 Cell Line	Mouse_NPR1 CHO-K1 Cell Line
Rat_NPR1 CHO-K1 Cell Line	
Anti-NPR1 hIgG1 Antibody(XX-16)	Anti-NPR1 hIgG1 Reference Antibody (XX-16)
Anti-NPR1 hIgG4 Antibody(REGN-5381)	Anti-NPR1 hIgG4 Reference Antibody (REGN-5381)
NPR2	
H_NPR2 Reporter 293 Cell Line	