Recombinant Human NPR2 Protein, Fc-tagged

Cat. No. NPR2-10978H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NPR2 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Arg 23-Ile 458 (Accession # P20594-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Arg 23
Species	Human
Source	HEK293
ProteinLength	23-458 aa
Description	This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors for natriuretic peptides. Both NPR1 and NPR2 contain five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. The protein is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux type.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 75.0 kDa. The protein migrates as 95-130 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	NPR2 natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B) [Homo sapiens (human)]
Official Symbol	NPR2
Synonyms	NPR2; natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B); acromesomelic dysplasia, Maroteaux type, AMDM, ANPRB, NPRB; atrial natriuretic peptide receptor 2; ANPb; GUCY2B; GC-B; ANP-B; NPR-B; ANPR-B; guanylate cyclase B; atrial natriuretic peptide B-type receptor; atrial natriuretic peptide receptor type B; AMDM; NPRB; ANPRB; GUC2B; NPRBi;
Gene ID	4882
mRNA Refseq	NM_003995
Protein Refseq	NP_003986

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	108961
UniProt ID	P20594

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA