

Recombinant Human NPR2 protein, GST-tagged

Cat. No. NPR2-323H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NPR2(1 a.a. - 1023 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-1023 a.a.
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	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	140.5 kDa
AA Sequence	MALPSLLLLVAALAGGVRPPGARNLT LAVVLPEHNLSYAWAWPRVGPAVALAVEAL GRALPVDLRFVSSELEGAC SEYLAPLSAVDLKLYHDPDLLLGP GCVYPAASVARFA SHWRLPLLTAGAVASGFS AKNDHYRTLVRTGPSAPKLG EFVVT LHGHFNWTARAA

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LLYLDARTDDRPHYFTIEGVFEALQGSNLSVQHQQVYAREPGGPEQATHFIRANGRIV
Y ICGPLEMLHEILLQAQRENLTNGDYVFFYLDVFGESLRAGPTRATGRPWQDNRT
EQAQALREAFQTVLVITYRE PPNPEYQEFQNRLLIRAREDFGVELGPSLMNLIAGCF
YDGILLYAEVLNETIQEGGTREDGLRIVEKMQGRRYHG VTGLVMDKNNDRETDFV
LWAMGDLDSGDFQPAAHYSGAEKQIWWTGRPIPWVKGAPPSDNPPCAFDLDDPS
CDK TPLSTLAIVALGTGITFIMFGVSSFLIFRKLMLLEKELASMLWRIRWEELQFGNSE
RYHKGAGSRLTSLRGSSYG SLMTAHGKYQIFANTGHFKGNVVAIKHVNKKRIELTR
QVLFELKHMRDVQFNHLTRFIGACIDPPNICIVTEYCP RGS LQGMAFLHNSIISSHGS
LKSSNCVVDSRFVLKITDYGLASFRSTAEPDDSHALYAKKLWTAPELLSGNPLPT TG
MQKADVYSFGIILQEIALRSGPFYLEGLDLSPEIVQKVRNGQRPYFRPSIDRTQLNE
ELVLLMERCWAQDPA ERPDFGQIKGFIRRFNKEGGTSILDNLLRMEQYANNLEKLV
EERTQAYLEEKRKAALLYQILPHSVAEQLKRG ETVQAEAFDSVTIYFSDIVGFTALS
AESTPMQVVTLLNDLYTCFDAIDNFDVYKVETIGDAYMVVSGLPGRNGQ RHAPEIA
RMALALLDAVSSFRIRHRPHDQLRLRIGVHTGPVCAGVVGLKMPRYCLFGDTVNTA
SRMESNGQALKI HVSSTTKDALDELGCFQLELRGDVEMKKGKGMRTYWLLGERKG
PPGLL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

NPR2 natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide
receptor B) [Homo sapiens]

Official Symbol

NPR2

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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
MIM	108961
UniProt ID	P20594
Chromosome Location	9p21-p12
Pathway	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
Function	ATP binding; GTP binding; guanylate cyclase activity; hormone binding; identical protein binding; natriuretic peptide receptor activity; nucleotide binding; peptide hormone binding; protein kinase activity; receptor activity; transferase activity, transferring phosphorus-containing groups; transmembrane signaling receptor activity;