

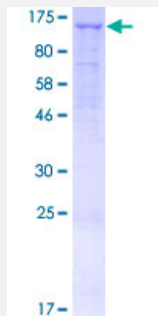
Full-Length

NPR2 (Human) Recombinant Protein (P01)

Catalog # H00004882-P01

Size 2 ug

Applications



Specification

Product Description

Human NPR2 full-length ORF (AAH96341.1, 1 a.a. - 1023 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALPSLLLLVAALAGGVRPPGARNLTAVVLPEHNLSYAWAWPRVGPAAVALAVEALGRALPVDL
RFVSSELEGACSEYLAPLSAVDLKLYHDPDLLLPGGCVPYPAASVARFASHWRLPLLTAGAVASG
FSAKNDHYRTLVRTGPSAPKLGEFVVTLHGHNWTARAALLYDARTDDRPHYFTIEGVFEALQG
SNLSVQHQVYAREPGGPEQATHFIRANGRIVYICGPLEMLHEILLQAQRENLTNGDYVFFYLDVFGE
SLRAGPTRATGRPWQDNRTREQAALREAFQTVLVITYREPPNPEYQEFQNRLLIRAREDFGVEL
GPSLMNLIAGCFYDILLYAEVLNETIQEGGTREDGLRVEKMQGRRYHGVTVGLVVMKNDRETD
FVLWAMGDLDSGDFQPAAHYSGAEKQWWTGRPIPWVKGAPPSDNPPCAFDLDDPSCDKTPL
STLAVLGTGTFIMFGVSSFLIFRKLMEKELASMLWRIRWEELQFGNSERYHKGAGSRLTSLR
GSSYGSLMTAHGKYQIFANTGHFKGNVVAIKHVNKKRIELTRQVLFELKHMRDVQFNHLTRFIGACI
DPPNICVTEYCPRGSLQGMAFLHNSIISSHGSLKSSNCVVDTSRFVLKITDYGLASFRSTAEPDDSH
ALYAKKLWTAPELLSGNPLPTTGMQKADVYSFGIILQEIALRSGPFYLEGLDLSPKENQKVRNGQR
PYFRPSIDRTQLNEELVLLMERCWAQDPAERPDPFGQIKGFIIRRFNKEGGTSILDNLLLRMEQYANN
LEKLVEERTQAYLEEKRAEALLYQILPHSVAEQLKRGETVQAEAFDSVTIYFSDMGFTALSAEST
PMQVVTLLNDLYTCFDAIIDNFDVYKVETIGDAYMVVSGLPGRNGQRHAPEIARMALALLDAVSSF
RIRHRPHDQLRLRIGVHTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGQALKIHVSSTTKDAL
DELGCFQLELRGDVEMKGGKGMRTYWLLGERKGPPGLL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

140.5

Interspecies Antigen Sequence	Mouse (96); Rat (96)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — NPR2

Entrez GeneID	4882
GeneBank Accession#	BC096341.1
Protein Accession#	AAH96341.1
Gene Name	NPR2
Gene Alias	AMDM, ANPRB, GUC2B, GUCY2B, NPRB, NPRBi
Gene Description	natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B)
Omim ID	108961 602875
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000021345|OTTHUMP00000045390|atrial natriuretic peptide B-type receptor|guanylate cyclase B|natriuretic peptide receptor B

Pathway

- [Purine metabolism](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Mental Disorders](#)
- [Myocardial Infarction](#)
- [Ventricular Dysfunction](#)