

Atrial natriuretic peptide receptor 1 (NPR1) Recombinant Protein | NPR1 recombinant protein

Recombinant Human Atrial natriuretic peptide receptor 1 (NPR1), partial

CATALOG # AAA18492	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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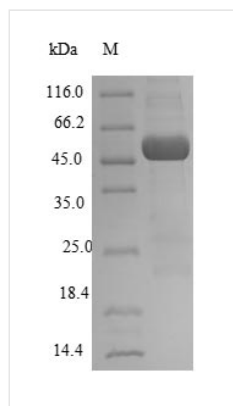
PRODUCT SYNONYMS

Atrial natriuretic peptide receptor 1 (NPR1); Recombinant Human Atrial natriuretic peptide receptor 1 (NPR1); partial; Atrial natriuretic peptide receptor type A; ANP-A; ANPR-A; NPR-A; Guanylate cyclase A; GC-A; NPR1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	33-473aa; Extracellular Domain
Sequence	GNLTVAVVLP LANTSYPWSW ARVGPAVELA LAQVKARPD L PGWTVRTVL GSSENALGVC SDTAAPLAAV DLKWEHNPV FLGPGCVYAA APVGRFTHW RVPLTAGAP ALGFGVKDEY ALTTRAGPSY AKLGDFVAAL HRRLGWERQA LMLYAYRPGD EEHCFFLVEG LFMVRDRLN ITVDHLEFAE DDLSHYTRL R TMPRKGRVI YICSSPDAFR TMLLLEAG LCGEDYVFFH LDIFGQSLQG GQGPAPRRPW ERGDGQDVSA RQAFQAAKII TYKDPDNPEY LEFLKQLKHL AYEQFNFTME DGLVNTIPAS FHDGLLLYIQ AVTETLAHGG TVTDGENITQ RMWNRSFQGV TGYLKIDSSG DRETDFSLWD MDPENGAFRV VLNYNGTSQE LVAVSGRKLN WPLGYPPDDI PKCGFDNEDP ACNQDHLSTL E
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NPR1 recombinant protein	Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.
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Product Categories/Family for NPR1 recombinant protein	Cardiovascular
References	Human atrial natriuretic peptide receptor defines a new paradigm for second messenger signal transduction.Lowe D.G., Chang M.S., Hellmiss R., Chen E., Singh S., Garbers D.L., Goeddel D.V.EMBO J. 8:1377-1384(1989) Organization of the human natriuretic peptide receptor A gene.Takahashi Y., Nakayama T., Soma M., Izumi Y., Kanmatsuse K.Biochem. Biophys. Res. Commun. 246:736-739(1998) Identification of functional polymorphisms in noncoding regions of the human natriuretic peptide receptor A gene.Maeda N., Knowles J.W.NHLBI resequencing and genotyping service (RS&G) The DNA sequence and biological annotation of human chromosome 1.Gregory S.G., Barlow K.F., McLay K.E., Kaul R., Swarbreck D., Dunham A., Scott C.E., Howe K.L., Woodfine K., Spencer C.C.A., Jones M.C., Gillson C., Searle S., Zhou Y., Kokocinski F., McDonald L., Evans R., Phillips K., Atkinson A., Cooper R., Jones C., Hall R.E., Andrews T.D., Lloyd C., Ainscough R., Almeida J.P., Ambrose K.D., Anderson F., Andrew R.W., Ashwell R.I.S., Aubin K., Babbage A.K., Bagguley C.L., Bailey J., Beasley H., Bethel G., Bird C.P., Bray-Allen S., Brown J.Y., Brown A.J., Buckley D., Burton J., Bye J., Carder C., Chapman J.C., Clark S.Y., Clarke G., Clee C., Cobley V., Collier R.E., Corby N., Coville G.J., Davies J., Deadman R., Dunn M., Earthrowl M., Ellington A.G., Errington H., Frankish A., Frankland J., French L., Garner P., Garnett J., Gay L., Ghorl M.R.J., Gibson R., Gilby L.M., Gillett W., Glithero R.J., Graffham D.V., Griffiths C., Griffiths-Jones S., Grocock R., Hammond S., Harrison E.S.I., Hart E., Haugen E., Heath P.D., Holmes S., Holt K., Howden P.J., Hunt A.R., Hunt S.E., Hunter G., Isherwood J., James R., Johnson C., Johnson D., Joy A., Kay M., Kershaw J.K., Kibukawa M., Kimberley A.M., King A., Knights A.J., Lad H., Laird G., Lawlor S., Leongamornlert D.A., Lloyd D.M., Loveland J., Lovell J., Lush M.J., Lyne R., Martin S., Mashreghi-Mohammadi M., Matthews L., Matthews N.S.W., McLaren S., Milne S., Mistry S., Moore M.J.F., Nickerson T., O'Dell C.N., Oliver K., Palmeiri A., Palmer S.A., Parker A., Patel D., Pearce A.V., Peck A.I., Pelan S., Phelps K., Phillimore B.J., Plumb R., Rajan J., Raymond C., Rouse G., Saenphimmachak C., Sehra H.K., Sheridan E., Shownkeen R., Sims S., Skuce C.D., Smith M., Steward C., Subramanian S., Sycamore N., Tracey A., Tromans A., Van Helmond Z., Wall M., Wallis J.M., White S., Whitehead S.L., Wilkinson J.E., Willey D.L., Williams H., Wilming L., Wray P.W., Wu Z., Coulson A., Vaudin M., Sulston J.E., Durbin R.M., Hubbard T., Wooster R., Dunham I., Carter N.P., McVean G., Ross M.T., Harrow J., Olson M.V., Beck S., Rogers J., Bentley D.R.Nature 441:315-321(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	167830411
NCBI GeneID	4881
NCBI Accession #	NP_000897.3
NCBI GenBank Nucleotide #	NM_000906.3
UniProt Accession #	P16066; Q5SR08; Q6P4Q3; B0ZBF0
Molecular Weight	50.4 kDa
NCBI Official Full Name	atrial natriuretic peptide receptor 1
NCBI Official Synonym Full Names	natriuretic peptide receptor 1
NCBI Official Symbol	NPR1
NCBI Official Synonym Symbols	ANPa; NPRA; ANPRA; GUC2A; GUCY2A
NCBI Protein Information	atrial natriuretic peptide receptor 1
UniProt Protein Name	Atrial natriuretic peptide receptor 1
UniProt Gene Name	NPR1
UniProt Synonym Gene Names	ANPRA; ANP-A; ANPR-A; NPR-A; GC-A
UniProt Entry Name	ANPRA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.