

Recombinant Human Regulator of G-protein signaling 7(RGS7)

Catalog No: #AP70716

Package Size: #AP70716-1 20ug #AP70716-2 100ug #AP70716-3 1mg



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Description

Product Name	Recombinant Human Regulator of G-protein signaling 7(RGS7)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-487aaSequence Info:Full Length of Isoform 5
Accession No.	P49802
Calculated MW	60.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MAQGNNGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFLSKIPSVFSGSDIVQWLKNTIED PVEALHLGTLMAAHGYFFPISDHVLTLDGDTFYRFQTPYFWPSNCWEPENTDYAVYLCKRTMQNKARLELA DYEAESESLARLQRAFARKWEFIFMQAEQAKVDKKRDKIERKILDSQERAFWDVHRPVPVPGCVNTTEVDIKKSSR MRNPHKTRKSVYGLQNDIRSHSPTHTPTPETKPTEDELQQQIKYWQQLDRHLKMSKVADSLLSYTEQYLE YDFLLPPDPSNPWLSDDTTFWEELEASKEPSQQRVSRWGFMDKDPVGREQFLKFESEFSSSENLRFW LAVEDLKKRPIKEVPSRVQEIWQEFLAPGAPSAINLDSKSYDKTTQNVKEPGRYTFEDAQEHYKLMKSDSYPR FIRSSAYQELLQAKKKSGNSMDRRTSFEKFAQNVGKSLTSKRLTSLAQS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving th into their inactive GDP-bound form. Activity on G(o)-alpha is specifically enhanced by the RGS6,GNG5 dimer. May play a role in synaptic vesicle exocytosis. May play important role in the rapid regulation of neuronal excitability and the cellular responses to short-lived stimulations .

References

cDNA clones of human proteins involved in signal transduction sequenced by the Guthrie cDNA resource center (www.cdna.org).Puhl H.L. III, Ikeda S.R., Aronstam R.S. 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., Ghorri M.R.J., Gibson R., Gilby L.M., Gillett W., Glithero R.J., Grafham 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) Research Topic: Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.