RAC3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rac3, Recombinant Protein
Full Product Name	Recombinant Human Rac3 protein (His tag)
Product Gene Name	Rac3 recombinant protein
Product Synonym Names	RAC3; Ras-related C3 botulinum toxin substrate 3; p21-Rac3
Sequence	Met1-Cys18 9
Host	E coli
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	192
OMIM	602050
3D Structure	ModBase 3D Structure for P60763
Species	Human
Tag	N-His & C-His
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for Rac3 recombinant protein	Proteins; Recombinant Proteins; Others; Cancer; signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rac3 recombinant protein	Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as cell spreading and the formation of actin-based protusions including lamellipodia and membrane ruffles. Promotes cell adhesion and spreading on fibrinogen in a CIB1 and alpha-IIb/beta3 integrin-mediated manner.
Other Notes	Small volumes of Rac3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Rac3 purchase	MBS2580640 is a recombinant protein targeting Rac3. Also known as Recombinant Human Rac3 protein (His tag). Host: E coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rac3. It may not necessarily be applicable to this product.

NCBI GI #	46397673

NCBI GeneID	5881
NCBI Accession #	P60763.1
UniProt Primary Accession #	P60763
UniProt Secondary Accession #	O14658; Q5U0M8
UniProt Related Accession #	P60763
NCBI Official Full Name	Ras-related C3 botulinum toxin substrate 3
NCBI Official Synonym Full Names	ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)
NCBI Official Symbol	RAC3
UniProt Protein Name	Ras-related C3 botulinum toxin substrate 3
UniProt Synonym Protein Names	p21-Rac3
Protein Family	Rac-like GTP-binding protein
UniProt Gene Name	RAC3
UniProt Entry Name	RAC3_HUMAN
NCBI Protein Information	ras-related C3 botulinum toxin substrate 3; p21-Rac3; rho family, small GTP binding protein Rac3
NCBI Summary for Rac3	The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. [provided by RefSeq, Jul 2008]
UniProt Comments for Rac3	RAC3: Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as cell spreading and the formation of actin-based protusions including lamellipodia and membrane ruffles. Interacts with the GEF protein DOCK7, which promotes the exchange between GDP and GTP, and therefore activates it. Interacts with C1D. Expression down-regulated in quiescent fibroblasts and clearly induced by serum stimulation. Highest levels in brain, also detected in heart, placenta and pancreas. Belongs to the small GTPase superfamily. Rho family. Protein type: Motility/polarity/chemotaxis; G protein; G protein, monomeric; G protein, monomeric, Rho Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: filamentous actin; neuron projection; growth cone; cell soma; perinuclear region of cytoplasm; lamellipodium; plasma membrane; endomembrane system; cytosol Molecular Function: GTPase activity; protein binding; GTP binding; calcium-dependent protein binding Biological Process: regulation of small GTPase mediated signal transduction; metabolic process; small GTPase mediated signal transduction; positive regulation of cell adhesion mediated by integrin; cell projection biogenesis; actin cytoskeleton organization and biogenesis; neuromuscular process controlling balance; neurite development
Research Articles on Rac3	**1.** Collectively these data unveil that FBXL19 functions as an antagonist of Rac3 by regulating its stability and regulates the TGFbeta1-induced E-cadherin down-regulation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/rac3/2580640