

TRIO recombinant protein

TRIO, Active

CATALOG # AAA74061	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

TRIO; Active; TRIO recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for TRIO recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for TRIO recombinant protein	Recombinant human TRIO (2627-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The TRIO protein accession number is O75962-1. TRIO (Triple functional domain protein) belongs to CAMK Ser/Thr protein kinase family with 5 isoforms produced by alternative splicing. It encodes two Dbl-homology-Pleckstrin-homology (DH-PH) Rho-GEF units with different specificities and a C-terminal serine/threonine kinase domain. It is a Rho-guanine nucleotide exchange factors (GEFs) that catalyzes exchange of GDP for GTP on small Rho-GTPases, such as Rac1, RhoG and RhoA. TRIO was originally identified as a binding partner of the transmembrane tyrosine phosphatase LAR, and they together play a role in coordinating cell-matrix and cytoskeletal rearrangements required for cell migration and cell growth.
Product Categories/Family for TRIO recombinant protein	Protein Kinases; Cancer; ERK/MAPK Pathway; Neurobiology; Ser/Thr Kinases
References	1. Debant A, et al. The multidomain protein Trio binds the LAR transmembrane tyrosine phosphatase, contains a protein kinase domain, and has separate rac-specific and rho-specific guanine nucleotide exchange factor domains. Proc Natl Acad Sci U S A. 93:5466-71. 1996. 2. van Rijssel J, et al: The many faces of the guanine-nucleotide exchange factor trio. Cell Adh Migr. 6:482-7. 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45439359
NCBI GeneID	7204
NCBI Accession #	NP_009049.2
NCBI GenBank Nucleotide #	NM_007118.3
UniProt Accession #	O75962; Q13458; Q59EQ7; Q6PJC9; Q6ZN05; Q8IWK8; D3DTD1
Molecular Weight	287,377 Da
NCBI Official Full Name	triple functional domain protein
NCBI Official Synonym Full Names	trio Rho guanine nucleotide exchange factor
NCBI Official Symbol	TRIO
NCBI Official Synonym Symbols	tgat; ARHGEF23
NCBI Protein Information	triple functional domain protein
UniProt Protein Name	Triple functional domain protein
UniProt Gene Name	TRIO
UniProt Entry Name	TRIO_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.

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Online datasheet: <https://stage.aaabiotech.com/trio-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74061>