

MRCKa/CDC42BPA active protein

Recombinant MRCKa/CDC42BPA (1-473) protein

CATALOG # AAA60314	HOST Baculovirus
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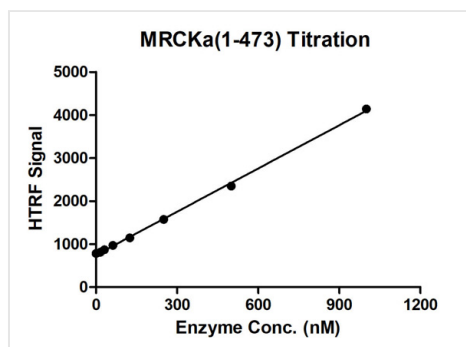
PRODUCT SYNONYMS

MRCKa/CDC42BPA; Recombinant MRCKa/CDC42BPA (1-473) protein; CDC42 Binding Protein Kinase Alpha; MRCKa/CDC42BPA active protein

PRODUCT SPECIFICATIONS

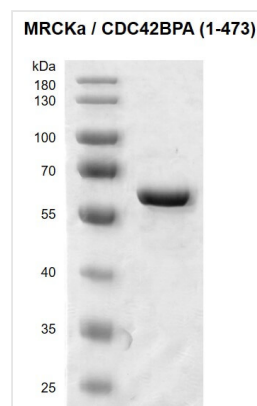
Host	Baculovirus
Purity/Purification	>=95%
Form/Format	Recombinant MRCKa/CDC42BPA (1-473) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant MRCKa/CDC42BPA (1-473) protein that includes amino acids 1-473 of human MRCKa protein (accession number NP_001352948.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 55.7 kDa.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Bioactivity

HTRF for MRCKa/CDC42BPA (1-473) activity 1 uM STK S3 substrate was incubated with different concentrations of MRCKa/CDC42BPA (1-473) protein in 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant MRCKa/CDC42BPA (1-473) protein 10% SDS-PAGE Coomassie staining MW: 55.7 kDa Purity: >= 95%

ADDITIONAL INFORMATION

Related Product Information for MRCKa/CDC42BPA active protein	CDC42BPA (CDC42 Binding Protein Kinase Alpha) is a serine/threonine-protein kinase which is an important downstream effector of CDC42 and plays a role in the regulation of cytoskeleton reorganization and cell migration. This protein regulates actin cytoskeletal reorganization via phosphorylation of PPP1R12C and MYL9/MLC2. In concert with MYO18A and LURAP1, CDC42BPA is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. In concert with FAM89B/LRAP25 CDC42BPA mediates the targeting of LIMK1 to the lamellipodium resulting in its activation and subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation.
Product Categories/Family for MRCKa/CDC42BPA active protein	Kinase; Recombinant Proteins

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/baculovirus-active-protein/mrcka-cdc42bpa/60314>