Epithelial Discoidin Domain-Containing Receptor 1 (DDR1) Pan Troglodytes Recombinant Protein

PRODUCT OVERVIEW

Product Name	Epithelial discoidin domain-containing receptor 1 (DDR1), Recombinant Protein
Full Product Name	Recombinant Pan troglodytes Epithelial discoidin domain-containing receptor 1 (DDR1), partial
Product Gene Name	DDR1 recombinant protein
Product Synonym Gene Name	DDR1
Sequence	DMKGHFDPAK CRYALGMQDR TIPDSDISAS SSWSDSTAAR HSSDGDGAWC PAGSVFPKEE EYLQVDLQRL HLVALVGTQG RHAGGLGKEF SRSYRLRYSR DGRRWMGWKD RWGQEVISGN EDPEGVVLKD LGPPMVARLV RFYPRADRVM SVCLRVELYG CLWRDGLLSY TAPVGQTMYL SEAVYLNDST YDGHTVGGLQ YGGLGQLADG VVGLDDFRKS QELRVWPGYD YVGWSNHSFS SGYVEMEFEF DRLRAFQAMQ VHCNNMHTLG ARLPGGVECR FRRGPAMAWE GEPMRHNLGG NLGDPRARAV SVPLGGRVAR FLQCRFLFAG PWLLFSEISF ISDVVNNSSP ALGGTFPPAP WWPPGPPPTN FSSLELEPRG QQPVAKAEGS PTA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	100,642 Da
Sequence Positions	21-413
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q7YR43
Species	Pan troglodytes (Chimpanzee)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DDR1 recombinant protein	MBS1448053 is a recombinant protein targeting DDR1. Also known as Recombinant Pan troglodytes Epithelial discoidin domain-containing receptor 1 (DDR1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DDR1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDR1. It may not necessarily be applicable to this product.

NCBI GI #	113865857
NCBI GeneID	462548
NCBI Accession #	NP_001038967.1

UniProt Primary Accession #	Q7YR43
UniProt Related Accession #	Q7YR43
GenBank Nucleotide #	NM_001045502.1
NCBI Official Full Name	epithelial discoidin domain-containing receptor 1
NCBI Official Synonym Full Names	discoidin domain receptor tyrosine kinase 1
NCBI Official Symbol	DDR1
UniProt Protein Name	Epithelial discoidin domain-containing receptor 1
UniProt Synonym Protein Names	CD167 antigen-like family member A; Discoidin receptor tyrosine kinase; Tyrosine kinase DDR; CD_antigen: CD167a
Protein Family	Epithelial discoidin domain-containing receptor
UniProt Gene Name	DDR1
UniProt Synonym Gene Names	EDDR1; Epithelial discoidin domain receptor 1
NCBI Protein Information	epithelial discoidin domain-containing receptor 1
UniProt Comments for DDR1	Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11. Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing ().
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