Nuclear Distribution Protein Nude Homolog 1 (NDE1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nuclear distribution protein nudE homolog 1 (NDE1), Recombinant Protein
Full Product Name	Recombinant Human Nuclear distribution protein nudE homolog 1 (NDE1)
Product Gene Name	NDE1 recombinant protein
Product Synonym Gene Name	NDE1
Sequence	MEDSGKTFSS EEEEANYWKD LAMTYKQRAE NTQEELREFQ EGSREYEAEL ETQLQQIETR NRDLLSENNR LRMELETIKE KFEVQHSEGY RQISALEDDL AQTKAIKDQL QKYIRELEQA NDDLERAKRA TIMSLEDFEQ RLNQAIERNA FLESELDEKE NLLESVQRLK DEARDLRQEL AVQQKQEKPR TPMPSSVEAE RTDTAVQATG SVPSTPIAHR GPSSSLNTPG SFRRGLDDST GGTPLTPAAR ISALNIVGDL LRKVGALESK LASCRNLVYD QSPNRTGGPA SGRSSKNRDG GERRPSSTSV PLGDKGLGKR LEFGKPPSHM SSSPLPSAQG VVKMLL
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	37,721 Da
Sequence Positions	1-346, Full length protein
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.
OMIM	605013
3D Structure	ModBase 3D Structure for Q9NXR1
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NDE1 recombinant protein	MBS1484361 is a recombinant protein targeting NDE1. Also known as Recombinant Human Nuclear distribution protein nudE homolog 1 (NDE1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NDE1 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 NDE1. It may not necessarily be applicable to this product.

NCBI GI #	221316642
NCBI GeneID	54820
NCBI Accession #	NP_001137451.1
UniProt Primary Accession #	Q9NXR1

UniProt Secondary Accession #	Q49AQ2
UniProt Related Accession #	Q9NXR1
GenBank Nucleotide #	NM_001143979.1
NCBI Official Full Name	nuclear distribution protein nudE homolog 1
NCBI Official Synonym Full Names	nudE neurodevelopment protein 1
NCBI Official Symbol	NDE1
NCBI Official Synonym Symbols	NDE; LIS4; MHAC; NUDE; NUDE1; HOM-TES-87
UniProt Protein Name	Nuclear distribution protein nudE homolog 1
Protein Family	External NADH-ubiquinone oxidoreductase
UniProt Gene Name	NDE1
UniProt Synonym Gene Names	NUDE; NudE
NCBI Protein Information	nuclear distribution protein nudE homolog 1
NCBI Summary for NDE1	This gene encodes a member of the nuclear distribution E (NudE) family of proteins. The encoded protein is localized at the centrosome and interacts with other centrosome components as part of a multiprotein complex that regulates dynein function. This protein plays an essential role in microtubule organization, mitosis and neuronal migration. Mutations in this gene cause lissencephaly 4, a disorder characterized by lissencephaly, severe brain atrophy, microcephaly, and severe cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012]
UniProt Comments for NDE1	Required for centrosome duplication and formation and function of the mitotic spindle. Essential for the development of the cerebral cortex. May regulate the production of neurons by controlling the orientation of the mitotic spindle during division of cortical neuronal progenitors of the proliferative ventricular zone of the brain. Orientation of the division plane perpendicular to the layers of the cortex gives rise to two proliferative neuronal progenitors whereas parallel orientation of the division plane yields one proliferative neuronal progenitor and a post-mitotic neuron. A premature shift towards a neuronal fate within the progenitor population may result in an overall reduction in the final number of neurons and an increase in the number of neurons in the deeper layers of the cortex.
Research Articles on NDE1	**1.** NDE1/Lissencephaly 1 and dynactin complexes separately mediate two key components of T cell-focused secretion, namely translocation of the MTOC and lytic granules to the IS, respectively.
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