

Recombinant Human NDE1, His-tagged

Cat. No. NDE1-3514H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human NDE1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-335aa).
Species	Human
Source	E.coli
Description	NDE1 is a cytoplasmic protein belonging to the nudE protein family. Phosphorylated during mitosis, it is essential for the formation and function of the mitotic spindle in M phase and functions to regulate the Dynein-mediated transport of kinetochore proteins, as well as centrosome duplication during interphase. NDE1 is thought to interact with NDEL1, LIS1 and Dynein IC1/2, cytosolic in a signaling pathway that regulates the formation of neurons and is fundamental to the development of the cerebral cortex.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 5mM DTT, 0.2M NaCl.
Molecular Weight	39.9 kDa (355aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 85 % by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MEDSGKTFSS EEEEANYWKD LAMTYKQRAE
 NTQEELREFQ EGSREYEAEL ETQLQQIETR NRDLLSENNR LRMELETIKE
 KFEVQHSEGY RQISALEDDL AQTKAIKDQL QKYIRELEQA NDDLERAKRA
 TMSLEDFEQ RLNQAIERNA FLESELDEKE NLLESVQRLK DEARDLRQEL
 AVQQKQEKPR TPMPSSVEAE RTDTAVQATG SVPSTPIAHR GPSSSLNTPG
 SFRRGLDDST GGTPLTPAAR ISALNIVGDL LRKVGALSK LASCRLVYD
 QSPNRTGGPA SGRSSKNRDG GERRPSSTSV PLGDKGLDTS CRWLSKSTTR
 SSSSC

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

NDE1 nudE nuclear distribution gene E homolog 1 (A. nidulans) [Homo sapiens]

Synonyms

nudE nuclear distribution gene E homolog 1 (A. nidulans); NUDE; NUDE1; FLJ20101; HOM-TES-87; NDE1; OTTHUMP00000160329; nuclear distribution protein nudE homolog 1; LIS1-interacting protein NUDE1, rat homolog

Gene ID

54820

mRNA Refseq

NM_001143979

Protein Refseq

NP_001137451

MIM

609449

UniProt ID

Q9NXR1

Chromosome

16p13.11

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Location

Function

microtubule binding; protein binding

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