

Product information

NDE1, 1-335 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1027

Full name: Nuclear distribution protein nudE homolog 1

NCBI Accession No.: NP_001137451

Synonyms: FLJ20101, HOM-TES-87, NUDE, NUDE, nudE nuclear distribution gene E homolog 1 (*A. nidulans*).

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. Recombinant human NDE1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol

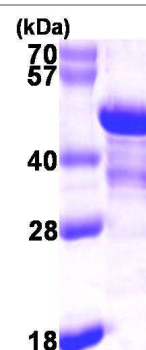
5mM DTT, 0.2M NaCl.

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)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MEDSGKTFSS EEEEANYWKD LAMTYKQRAE NTQEELREFQ EGSREYEAEL ETQLQQIETR NRDLLSENNR
LRMELETIKE KFEVQHSEGY RQISALEDDL AQTKAIDQQL QKYIRELEQA NODLERAKRA TIMSLEDSEQ RLNQAIERNA FLESELDEKE
NLLESVQRLK DEARDLRQEL AVQQKQEKPR TPMPSVEAE RTDTAVQATG SVPSTPIAHR GPSSSLNTPG SFRRGLDDST GGTPPLTPAAR
ISALNIVGDL LRKVGALSK LASCRLVYD QSPNRTGGPA SGRSSKNRDG GERPSSTSV PLGDKGLDTS CRWLSKSTTR SSSSC

General references:

Yan X., *et al.* (2003) *Mol Cell Biol.* 23(4):1239-50.

Kitagawa M., *et al.* (2000) *FEBS Lett.* 479(1-2):57-62.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.