

**NDE1, 1-335aa, Human, His tag, E.coli**

**Cat.NO.: TP03114**

3th Edition

**Synonyms:**Nuclear distribution protein nudE homolog 1, 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 Dyneinmediated 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)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMEDSGKTFSSSEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEALETQ  
LQIETRNRDLLSENNRLRMELETIKEKFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRAT  
IMSLEDFEQRLNQAIERNAFLSELEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQ  
ATGSVPSTPIAHRGPSSSLNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALESKLASCRNLVYDQSPN  
RTGGPASGRSSKNRDGGERRPSSTSVPLGDKGLDTSRWLSKSTTRSSSSC

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.