Product Name: NleL

Alternate Names: Non-LEE encoded effector L, espX7, SopA

Product Code: TE3-020

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

In vitro, recombinant NleL accepts activated ubiquitin from E2 conjugating enzyme UBE2L3 in a reaction that also requires Ubiquitin Activating Enzyme 1 (an E1). The charged E3 demonstrates strong autoubiquitylation and generation of unanchored polyubiquitin in the absence of added substrates. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: *Escherichia coli* O157:H7

Predicted MW (kDa): 70 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: N/A

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

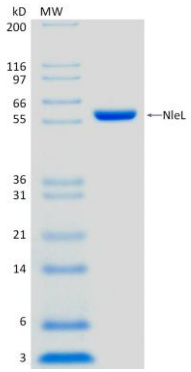
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: E3 ubiquitin-protein ligase SopA



2 µg NleL run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Polyubiquitin Chain Synthesis Assay.

Background

Description

Recombinant NleL is a bHECT-type E3 that generates mainly K6- and K48-linked polyubiquitin chains. This recombinant protein consists of NleL amino acids 169-782.

Accession Number: A0A0H3JDV8 **Entrez Gene ID:** espX7

Protein Sequence

GPLGSQGRACLSKAELTADLIWLSANRTGEESAEELNYSGCDLSGLSLVGLNLSSVNFSGAVL
DDTDLRMSDLSQAVLENCSFKNSILNECNFCYANLSNCIIRALFENSNFSNSNLKNASFKGSS
YIQYPPILNEADLTGAIIIPGMVLSGAILGDVKELFSEKSNTINLGGCYIDLSDIQENILSVL
DNYTKSNKSILLTMNTSDDKYNHDKVRAAEELIKKISLDELAAFRPYVKMSLADSFSIHPYLN
NANIQQWLEPICDDFFDTIMSWFNNSIMMYMENGSLLQAGMYFERHPGAMVSYNSSFIQIVMN
GSRRDGMQERFRELYEVYLKNEKVYPVTQQSDFGLCDGSGKPDWDDDSDLAYNWVLLSSQDDG
MAMMCSLSHMVDMLSPNTSTNWMSFFLYKDGEVQNTFGYSLSNLFSESFPIFSIPYHKAFSQN
FVSGILDILISDNELKERFIEALNSNKSDYKMIADDQQRKLACVWNPFLDGWELNAQHVDMIM
GSHVLKDMPLRKQAEILFCLGGVFCKYSSSDMFGTEYDSPEILRRYANGLIEQAYKTDPQVFG
SVYYYNDILDRLQGRNNVFTCTAVLTDMLTEHAKESFPEIFSLYYPVAWR