

NLK active protein

Recombinant NLK protein

CATALOG # AAA60328	HOST Baculovirus
------------------------------	----------------------------

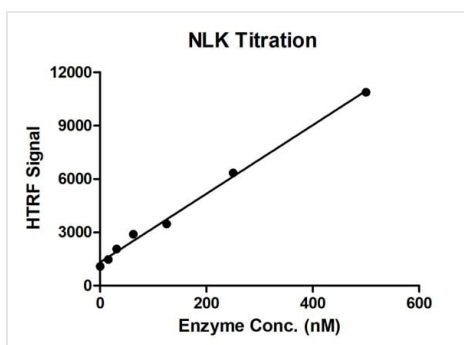
PRODUCT SYNONYMS

NLK; Recombinant NLK protein; Nemo Like Kinase; NLK active protein

PRODUCT SPECIFICATIONS

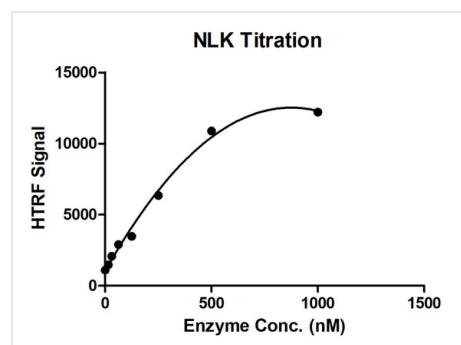
Host	Baculovirus
Purity/Purification	>=90%
Form/Format	Recombinant NLK protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant NLK protein was expressed in baculovirus expression system as the full length protein (accession number NP_057315.3) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 59.5 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



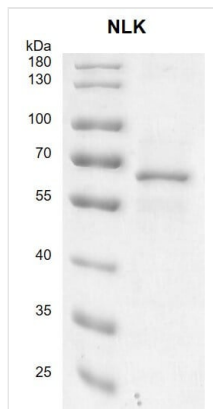
Bioactivity

HTRF Assay for Recombinant NLK activity. 1 uM STK S3 substrate was incubated with different concentrations of NLK protein in 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The 10 ul detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



Bioactivity

HTRF Assay for Recombinant NLK activity. 1 uM STK S3 substrate was incubated with different concentrations of NLK protein in 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The 10 ul detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant NLK protein gel 10% SDS-PAGE gel with Coomassie blue staining MW: 59.5 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for NLK active protein	NLK (Nemo Like Kinase), a serine/threonine-protein kinase that regulates a number of transcription factors with key roles in cell fate determination. Positive effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A, MAP3K7/TAK1 and HIPK2 and negative regulator of the canonical Wnt/beta-catenin signaling pathway. NLK binds to and phosphorylates TCF7L2/TCF4 and LEF1, promoting the dissociation of the TCF7L2/LEF1/beta-catenin complex from DNA, as well as the ubiquitination and subsequent proteolysis of LEF1. Together these effects inhibit the transcriptional activation of canonical Wnt/beta-catenin target genes. NLK acts downstream of IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for activation of NLK by MAP3K7/TAK1. Diseases associated with NLK include Diamond-Blackfan Anemia.
Product Categories/Family for NLK active protein	Kinase; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/nlk/60328>