Recombinant Human NEK7, Active

Cat. No. NEK7-661H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	Crystallin mu, also known as CRYM, is a member of the crystallin protein family. Crystallins are separated into two classes, taxon-specific and ubiquitous. This gene encodes a taxon-specific crystallin protein. The human CRYM gene maps to chromosome 16p13.11, and encodes a protein that is expressed in neural tissue, muscle, and kidney. Unlike other crystallins, CRYM does not perform a structural role in lens tissue, but rather it binds NADPH and thyroid hormone, which indicates that it may have other regulatory or developmental functions.
Biochem/physiol Actions	Nek7 is a member of the NIMA (never in mitosis, gene A) family of serine/threonine kinases. During early embryogenesis, Nek7 is expressed in the site of decidual reaction while later in embryogenesis, it is almost exclusively restricted to the nervous system in the dorsal thalamus.
Mol Wt	protein apparent mol wt ~63 kDa.
Assay	≥85% (SDS-PAGE).
Form	buffered aqueous glycerol solution.

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Storage Temp	−70°C.

GENE INFORMATION

Gene Name	NEK7 NIMA (never in mitosis gene a)-related kinase 7 [Homo sapiens]
Synonyms	NEK7; NIMA (never in mitosis gene a)-related kinase 7; NIMA-related kinase 7; EC 2.7.11.1;serine/threonine-protein kinase Nek7; nimA-related protein kinase 7; never in mitosis A-related kinase 7
Gene ID	140609
mRNA Refseq	NM_133494
Protein Refseq	NP_598001
MIM	606848
UniProt ID	Q8TDX7
Chromosome Location	1q31.3
Function	ATP binding; magnesium ion binding; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity; transferase activity; protein serine/threonine kinase activity

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