



# Recombinant Human Dual specificity protein kinase CLK2 (CLK2), partial

<b>Product Code</b>	CSB-EP005558HU1a6
<b>Relevance</b>	Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex. May be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing and can cause redistribution of SR proteins from speckles to a diffuse nucleoplasmic distribution. Acts as a suppressor of hepatic gluconeogenesis and glucose output by repressing PPARGC1A transcriptional activity on gluconeogenic genes via its phosphorylation. Phosphorylates PPP2R5B thereby stimulating the assembly of PP2A phosphatase with the PPP2R5B-AKT1 complex leading to dephosphorylation of AKT1. Phosphorylates: PTPN1, SRSF1 and SRSF3. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.
<b>Abbreviation</b>	Recombinant Human CLK2 protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P49760
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 85% as determined by SDS-PAGE.
<b>Sequence</b>	<p>           RRAKSVEDDAEGHLYHVGDWLQERYEIVSTLGEGTFGRVVQCVDHRRGGAR            VALKIIKNVEKYKEAARLEINVLEKINEKDPDNKNLVCVQMFDWFDYHGHMCISF            ELLGLSTFDLKDNNYLPYPIHQVRHMAFQLCQAVKFLHDNKLTHDLPENIL            FVNSDYELTYNLEKKRDESVKSTAVRVVDFGSATFDHEHHSTIVSTRHYRAP            EVILELGWSQPCDVWSIGCIIFEYYVGFTLFQTHDNREHLAMMERILGPIPSRMI            RKTRKQKYFYRGRLDWDENTSAGRYVRENCKPLRRYLTSEAEHHQLFDLIE            SMLEYEPAKRLTLGEALQHPFFARLRAEPPNKLWDSSRDISR         </p>
<b>Research Area</b>	Cell Biology
<b>Source</b>	E.coli
<b>Target Names</b>	CLK2
<b>Protein Names</b>	CDC-like kinase 2
<b>Expression Region</b>	138-499aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-B2M-tagged



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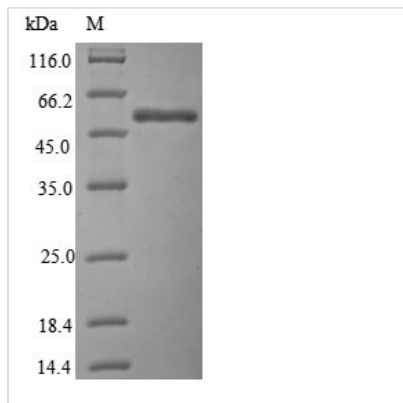
**Mol. Weight** 56.7 kDa

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**Protein Length** Partial

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**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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