

## Recombinant Human CLK3 Protein (GST Tag)

Catalog Number: PKSH031459

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

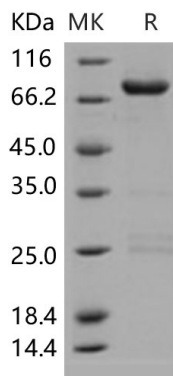
### Description

<b>Species</b>	Human
<b>Source</b>	Baculovirus-Insect Cells-derived Human CLK3 protein Met 1-Arg 490, with an N-terminal GST
<b>Calculated MW</b>	85.0 kDa
<b>Observed MW</b>	70 kDa
<b>Accession</b>	NP_003983.2
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 80 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM GSH, 0.5mM PMSF, 25% glycerol Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 80 % as determined by reducing SDS-PAGE.

### Background

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Dual specificity protein kinase CLK3, also known as CDC-like kinase 3, and CLK3, is a member of CMGC Ser/Thr protein kinase family and Lammer subfamily. Mammalian CLK is the prototype for a family of dual specificity kinases (termed Lammer kinases) that have been conserved in evolution. CLK family members have shown to interact with, and phosphorylate, serine- and arginine-rich (SR) proteins of the spliceosomal complex, which is a part of the regulatory mechanism that enables the SR proteins to control RNA splicing. The three members of the CLK family of kinases (CLK1, CLK2, and CLK3) have been shown to undergo conserved alternative splicing to generate catalytically active and inactive isoforms. The human CLK2 and CLK3 are found within the nucleus and display dual-specificity kinase activity. The truncated isoforms, hCLK2(T) and hCLK3(T), colocalize with SR proteins in nuclear speckles. CLK3 may play a role in the development and progression of azoospermia.

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