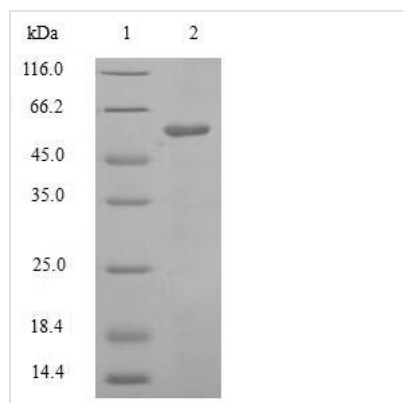




Recombinant Human M-phase inducer phosphatase 3 (CDC25C)

Product Code	CSB-EP004996HU
Relevance	Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle. When phosphorylated, highly effective in activating G2 cells into prophase. Directly dephosphorylates CDK1 and activates its kinase activity.
Abbreviation	Recombinant Human CDC25C protein
Storage	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.
Uniprot No.	P30307
Alias	Dual specificity phosphatase Cdc25C
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSTELFSSTREEGSSSGSGPSFRSNQRKMLNLLLERDTSFTVCPDVPRTPTVGK FLGDSANLSILSGGTPKRCLDLNLSSGEITATQLTTSADLDETGHLDSSGLQE VHLAGMNHdqHLMKCSPAQLLCSTPNGLDRGHRKRDAMCSSSANKENDNG NLVDSEMKYLGSPITTVPKLDKNPNLGEDQAEESISDELMEFSLKDQEAKVSRS GLYRSPSPMPENLNRRLKQVEKFKDNTIPDKVKKKYFSGQGKLRKGLCLKKT SLCDITITQMLEEDSNQGHGHLIGDFSKVCALPTVSGKHQDLKYVNPETVAALLSG KFQGLIEKFYVIDCRYPYELGGHIQGALNLYSQEELFNFFLKKPIVPLDTQKR VFHCEFSSEGRPMCRCLREEDRSLNQYPALYYPELYILKGGYRDFPEYME CEPQSYCPMHQDHKTELLRCRSQSKVQEGERQLREQIALLVKDMSP
Research Area	Cell Biology
Source	E.coli
Target Names	CDC25C
Expression Region	1-473aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	57.4kDa
Protein Length	Full Length
Image	



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

Description

Amino acids 1-473 form the expressed segment for recombinant Human CDC25C. The calculated molecular weight for this CDC25C protein is 57.4 kDa. Expression of this CDC25C protein is conducted in e.coli. The N-terminal 6xHis tag was fused into the coding gene segment of CDC25C, making it easier to detect and purify the CDC25C recombinant protein in the later stages of expression and purification.

M-phase inducer phosphatase 3 (CDC25C) is an important protein in the area of cell cycle regulation. CDC25C plays a key role in controlling the cell division process, specifically during the transition from the G2 phase to the M phase. This makes CDC25C a central player in ensuring the accurate and timely progression of the cell cycle. In cancer research, CDC25C has gained prominence due to its involvement in promoting cell proliferation. Dysregulation of CDC25C is often observed in various cancers, where its overactivity can lead to uncontrolled cell division—a hallmark of cancer. Beyond cancer, CDC25C is implicated in studies related to reproductive biology. Its role in oocyte maturation and fertilization underscores its importance in fertility-related processes.

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.

Shelf Life

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.