CDC25B (human), (recombinant)

CDC25 protein tyrosine phosphatases activate cyclin dependent kinases by dephosphorylating them, promoting cell division. All three of the genes encoding the CDC25 phosphatases are considered potential oncogenes and the enzymes are drug discovery targets. In mammalian cells, the CDC25B isoform activates cyclin A- and cyclin B1-containing complexes and is necessary for entry into mitosis. CDC25B -/- female mice are sterile because their oocytes are in permanent meiotic arrest resulting from the inability to activate CDK11. CDC25B shuttles between the nucleus and the cytoplasm. The protein is in the nucleus during M and G1 and moves to the cytoplasm during S and G22.

Ordering Information

Order Online »

BML-SE365-0050	50µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	Cell division cycle 25B, Dual specificity phosphatase CDC25B
Application Notes	Useful for kinetic studies and high throughput screening.
Formulation	Liquid. In 50mM TRIS/HCl, pH 8.0, 150mM NaCl, 5mM DTT, 0.1mM EDTA, 0.03% Brij 35, 20% glycerol.
Gene/Protein Identifier	NM_021873 (RefSeq)
MW	65 kDa
Purity Detail	Partially purified by single-step affinity chromatography and gel filtration.
Source	Produced in *E. coli*. Full length human CDC25B.
Specific Activity	≥10 U/mg assayed by 3-O-methyl fluorescein phosphate (OMFP) hydrolysis at pH 8.2, 30°C. One unit is equal to 1 nmole phosphate hydrolyzed from OMFP per minute.
UniProt ID	P30305

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