



Protein Phosphatase Cdi1/KAP

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

Protein Phosphatase Cdi1/KAP

(Human, full length, recombinant enzyme expressed in *E. coli*.)

Cat# CY-E1356

Lot No.

100 µg (0.5 µg/µL x 200 µL)

Product Description: Human full length Cdi1/KAP, containing a *N*-terminal GST tag, expressed in *E. coli*. Purified by GSH agarose chromatography. The Protein Phosphatase Cdi1/KAP is designed to use for CycLex Protein Phosphatase Cdi1/KAP Fluorometric Assay Kit [Cat# CY-1356]. The Protein Phosphatase Cdi1/KAP should be added to the well at 0.5µg/well. Unused recombinant should be stored at -70°C. AVOID FREEZE/THAW CYCLES!

Formulation: This recombinant protein is supplied frozen in a buffer containing 20 mM HEPES-KOH pH 7.5, 2 mM dithiothreitol, 50 mM NaCl, 50% Glycerol.

Source: Human full length Cdi1/KAP, containing *N*-terminal GST tag, expressed in *E. coli*.

Molecular Weight: This recombinant protein demonstrates a single 50 kDa band by SDS-PAGE analysis.

Purity: This recombinant protein is greater than 90 % pure as determined by SDS-PAGE analysis.

Inhibitors: Specific Cdi1/KAP inhibitor has not been discovered yet.

Specific Activity: 5.4 units/µg. This unit value is determined at the point of production and may vary with time and various conditions. Specific Activity also varies among production lots.

Unit Definitions: One unit is defined as the amount of phosphatase required to release 1 pmol of phosphate from 3-o-methyl fluorescein phosphate (OMFP) per minute in 50 mM Tris, 5 mM dithiothreitol, 10 % glycerol, 1 % polyvinyl alcohol, pH 8.2 at room temperature.

Storage: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability: Unopened vial at -70 °C, for 1 year after delivery.



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General References:

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2. Hannon, G. J.; Casso, D.; Beach, D. KAP: a dual specificity phosphatase that interacts with cyclin-dependent kinases. *Proc. Nat. Acad. Sci.* **91**: 1731-1735, 1994.
3. Poon RY and Hunter T. Dephosphorylation of Cdk2 Thr160 by the cyclin-dependent kinase-interacting phosphatase KAP in the absence of cyclin. *Science*, **270**: 90-3, 1995.
4. Denu, J. M., M. A. Stuckey, M. Saper, and J. E. Dixon. Form and function in protein dephosphorylation. *Cell*, **87**: 361-364, 1996.
5. Kinzler, K. W., and B. Vogelstein. Landscaping the cancer terrain. *Science*, **280**: 1036-1037, 1998.
6. Parsons, R. Phosphatases and tumorigenesis. *Curr. Opin. Oncol.* **10**: 88-91, 1998.
7. Lee SW, Reimer CL, Fang L, Iruela-Arispe ML, Aaronson SA. Overexpression of kinase-associated phosphatase (KAP) in breast and prostate cancer and inhibition of the transformed phenotype by antisense KAP expression. *Mol Cell Biol.* **20**: 1723-32, 2000.

Related Products:

* Protein Phosphatase Cdi1-KAP Fluorometric Assay Kit: Cat# CY-1356

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