For Research Use Only, Not for use in diagnostic procedures

LMW-PTP/ACP1 Positive Control

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

Cat# CY-E1358

Lot No.
For 100 Assays
(20 units/µL x 500 µL)

Product Description: Human full length LMW-PTP/ACP1, containing a *N*-terminal GST tag, expressed in *E. coil*. Purified by GSH agarose chromatography. The LMW-PTP/ACP1 Positive control is designed to use for CycLex Protein Phosphatase LMW-PTP/ACP1 Fluorometric Assay Kit [Cat# CY-1358]. The LMW-PTP/ACP1 Positive Control should be added to the well at 100 units/well. Unused LMW-PTP/ACP1 Positive control should be stored at -70°C. AVOID FREEZE/THAW CYCLES!

Formulation: The LMW-PTP/ACP1 Positive Control is supplied frozen in a buffer containing 50mM Tris-HCl (pH 7.0), 2 mM DTT and 50% glycerol.

Source: Human full length LMW-PTP/ACP1, containing *N*-terminal GST tag, expressed in *E. coil*. The GenBank Accession No. is BC106011.

Molecular Weight: recombinant LMW-PTP/ACP1 demonstrates a single 44 kDa band by SDS-PAGE analysis.

Purity: LMW-PTP/ACP1 is greater than 80 % pure as determined by SDS-PAGE analysis.

Substrates: LMW-PTP/ACP1 dephosphorylates a number of substrates, including phosphorylated PDGF-R, EphA2, EphB2 and synthesized phosphatase substrates.

Inhibitors: Sodium Orthovanadate are known as effective PTP inhibitor.

Specific Activity: 20 units/µL. 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 synthesized phosphatase substrate, OMFP (3-o-methylfluorescein phosphate), per minute at 30°C.

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.

Related Products:
* PTP1B Fluorometric Assay Kit : Cat# CY-1350
* TC-PTP Fluorometric Assay Kit : Cat# CY-1351
* Protein Phosphatase Cdc25A Fluorometric Assay Kit: Cat# CY-1352
* Protein Phosphatase Cdc25B Fluorometric Assay Kit: Cat# CY-1353
* Protein Phosphatase Cdc25C Fluorometric Assay Kit: Cat# CY-1354
* Protein Phosphatase Cdc25 Combo Fluorometric Assay Kit: Cat# CY-1355
* Protein Phosphatase Cdi1/KAP Fluorometric Assay Kit: Cat# CY-1356
* Protein Phosphatase LMW-PTP/ACP1 Fluorometric Assay Kit: Cat# CY-1358
* Recombinant PTP1B : Cat# CY-E1350
* Recombinant TC-PTP : Cat# CY-E1351
* Recombinant Cdc25A (Catalytic domain): Cat# CY-E1352
* Recombinant Cdc25B (Catalytic domain): Cat# CY-E1353
* Recombinant Cdc25C (Catalytic domain): Cat# CY-E1354
* Recombinant Cdi1/KAP: Cat# CY-E1356
* Recombinant LMW-PTP/ACP1 : Cat# CY-E1358

General References:

1. Dissing J, Johnsen AH, Sensabaugh GF. Human red cell acid phosphatase (ACP1). The amino acid sequence of the two isozymes Bf and Bs encoded by the ACP1*B allele. J Biol Chem. 1991 Nov 5;266(31):20619-25.

2. Wo YY, McCormack AL, Shabanowitz J, Hunt DF, Davis JP, Mitchell GL, Van Etten RL. Sequencing, cloning, and expression of human red cell-type acid phosphatase, a cytoplasmic phosphotyrosyl protein phosphatase. J Biol Chem. 1992 May 25;267(15):10856-65.

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