

Product Information

PP1B, active, GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5337**
Storage Temperature -70°C

Synonyms: PP-1B, PPP1CB, PPP1CD, MGC3672

Product Description

PP1B or protein phosphatase 1, catalytic subunit, beta isozyme is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1B is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription.¹ PP1B is also known as PP1-delta. PP1B has been reported to functions as a suppressor of learning and memory.²

Recombinant full-length human PP1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST-tag. The gene accession number is NM_002709. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~60 kDa

Phosphatase activity was determined with a spectrophotometric assay procedure.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)

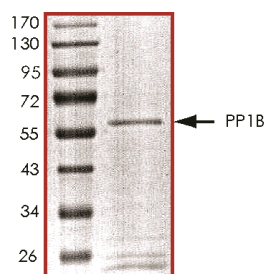
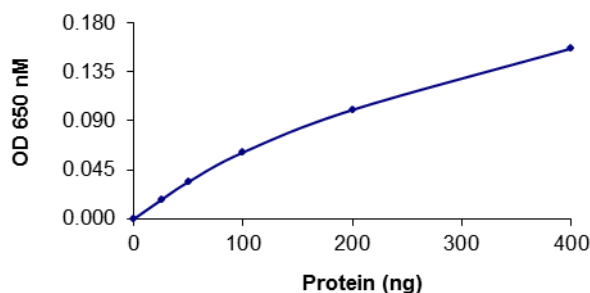


Figure 2.
Specific Activity of Typical Lot:
218–326 nmole/min/mg



References

1. Barker, H.M. et al., Three genes for protein phosphatase 1 map to different human chromosomes: sequence, expression and gene localisation of protein serine/threonine phosphatase 1 beta (PPP1CB). *Biochim. Biophys. Acta*, **1220**, 212-218 (1994).
2. Saadat, M. et al., Chromosomal localization of human, rat, and mouse protein phosphatase type 1 beta catalytic subunit genes (PPP1CB) by fluorescence *in situ* hybridization. *Jpn. J. Genet.*, **69**, 697-700 (1994).

RC,MAM 12/12-1