



Protein Tyrosine Phosphatase PTPRD (2nd Catalytic Domain)

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

Protein Tyrosine Phosphatase PTPRD (2nd Catalytic Domain)

Human, recombinant protein expressed in *E. coli.*, Active
Cat# CY-E1307

Amount: 50µg (1.95µg/µl)

Lot:

Introduction:

PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Receptor-type tyrosine-protein phosphatase delta (PTPRD) contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic protein tyrosine phosphatase (PTPase) domains. PTPRD has been shown to interact with PTPRS and LAR-interacting protein LIP.1.

Product Description:

2nd PTPase domain of human PTPRD, containing 1672-1902a.a., and an N-terminal GST tag, expressed in *E. coli.* and purified by GSH agarose chromatography.

Gene Information:

The gene/protein accession number is NM_002839/NP_002830.

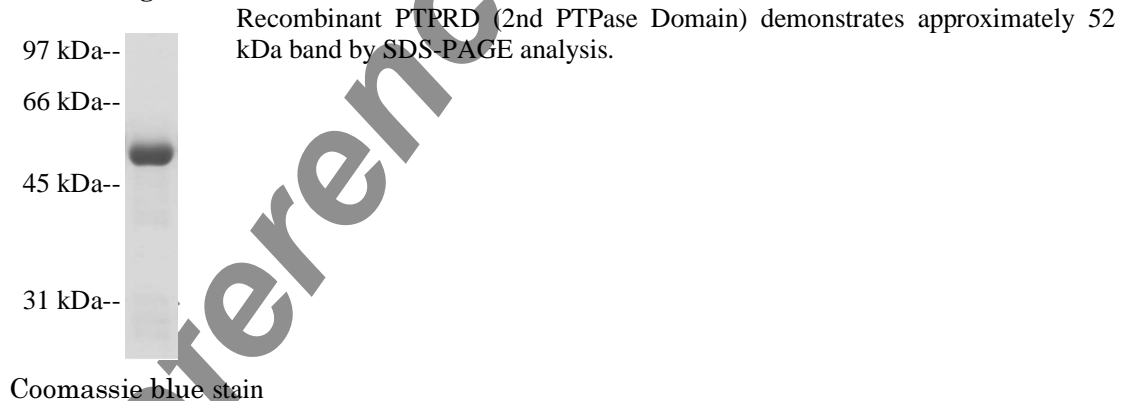
Gene Aliases:

Protein tyrosine phosphatase receptor type D, HPTPD, HPTPDELTA, PTPD, RPTPDELTA

Formulation:

The recombinant protein is supplied frozen in a buffer containing 100mM NaCl, 20mM Tris-HCl (pH 7.0), 1mM DTT, 1mM EDTA and 50% glycerol. Use a same buffer for dilution when needed.

Molecular Weight:





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Specific Activity:

1.53 units/ μ g. 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-Methylfluorescein Phosphate (OMFP) 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.

References:

1. Pulido R, Krueger NX, Serra-Pages C, Saito H, Streuli M. "Molecular characterization of the human transmembrane protein-tyrosine phosphatase delta. Evidence for tissue-specific expression of alternative human transmembrane protein-tyrosine phosphatase delta isoforms". J Biol Chem 270 (12): 6722–8. 1995.
2. Mizuno K, Hasegawa K, Katagiri T, Ogimoto M, Ichikawa T, Yakura H. "MPTP delta, a putative murine homolog of HPTP delta, is expressed in specialized regions of the brain and in the B-cell lineage". Mol Cell Biol 13 (9): 5513–23.1993.
3. Wallace, M J; Fladd C, Batt J, Rotin D. "The second catalytic domain of protein tyrosine phosphatase delta (PTP delta) binds to and inhibits the first catalytic domain of PTP sigma". Mol. Cell. Biol. 18 (5): 2608–16.1998.
4. Pulido, R, Serra-Pagès C, Tang M, Streuli M. "The LAR/PTP delta/PTP sigma subfamily of transmembrane protein-tyrosine-phosphatases: multiple human LAR, PTP delta, and PTP sigma isoforms are expressed in a tissue-specific manner and associate with the LAR-interacting protein LIP.1". Proc. Natl. Acad. Sci. U.S.A. 92 (25): 11686–90. 1995.

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