Human PTPRA / PTPalpha Protein (aa 174-793, His & GST Tag)

Catalog Number: 13175-H20B

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

HEPTP; HLPR; HPTPA; HPTPalpha; LRP; PTPA; PTPRL2; R-PTP-alpha; RPTPA

Protein Construction:

A DNA sequence encoding the human PTPRA isoform 2 (P18433-2) cytoplasmic domain (Ala 174-Lys 793) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its ability to bind biotinylated recombinant mouse SRC in a functional ELISA. 2. Measured by its ability to cleave a substrate, pNitrophenyl phosphate (pNPP). The specific activity is >40000 pmol/min/μg.

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Met

Molecular Mass:

The recombinant human PTPRA (aa 174-793)/GST chimera consists of 857 amino acids and has a calculated molecular mass of 99 kDa. It migrates as an approximately 90 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 20mM Tris, 500mM NaCl, pH 7.4, 20% gly, 3mM DTT

Usage Guide

Storage:

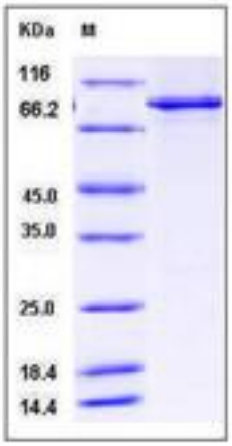
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



References

1.Kaplan R, *et al.* (1990) Cloning of three human tyrosine phosphatases reveals a multigene family of receptor-linked protein-tyrosine-phosphatases expressed in brain. Proc Natl Acad Sci U S A. 87 (18): 7000-4. 2.Hertog JD, *et al.* (1996) Tight association of GRB2 with receptor protein-tyrosine phosphatase alpha is mediated by the SH2 and C-terminal SH3 domains. EMBO J. 15 (12): 3016-27. 3.Ye H, *et al.* (2011) Receptor-like protein-tyrosine phosphatase a enhances cell surface expression of neural adhesion molecule NB-3. J Biol Chem. 286 (29): 26071-80.