



PTPIA2 (693-979). E.coli Active Enzyme

Receptor-type tyrosine-protein phosphatase-like N; R-PTP-N; Islet cell antigen 512; ICA 512; Islet cell autoantigen 3; PTPRN

BACKGROUND

Implicated in neuroendocrine secretory processes. May be involved in processes specific for neurosecretory granules, such as their biogenesis, trafficking or regulated exocytosis or may have a general role in neuroendocrine functions. Seems to lack intrinsic enzyme activity. May play a role in the regulation of secretory granules via its interaction with SNTB2. Interacts with phosphorylated SNTB2, protecting it from protein cleavage by CAPN1. Dephosphorylation of SNTB2 upon insulin stimulation disrupts the interaction and results in its cleavage.

ACTIVITY

Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target substrates. See vial for lot-specific activity.

PURITY

> 95% by SDS-PAGE

APPLICATIONS

Study of enzyme kinetics, regulation, and to dephosphorylate target substrates.

ORDERING INFORMATION

CATALOG NUMBER

X1774E

SIZE

20 µg

CUSTOMER STORAGE

Product should be stored at -80°C.
Aliquot to avoid freeze/thaw cycles

FORMULATION

Provided in 50 mM Tris-HCl, pH 8.0,
137 mM NaCl, 2.7 mM KCl, 3 mM
DTT, 20 mM glutathione.

SHIP CONDITIONS

Ship on dry ice, freeze upon arrival

STABILITY

Products are stable for one year from
purchase when stored properly

CONCENTRATION

See vial for concentration

SOURCE

E. Coli

ASSAY METHODS

MATERIALS

Reaction mix done with desalting / buffer exchange column (equilibrated with TBS + 3mM DTT). This is followed by a 3 hr incubation with GST beads (in the presence of 3 mM DTT), and then elution.

PROCEDURE

REFERENCES

1. T. Ort et al., EMBO J. 2001, 20: 4013-23
2. Z. Li et al., J Histochem Cytochem. 2000, 48:761-7

PRODUCT SPECIFIC REFERENCES