

Recombinant Human PTPRK protein, His & T7-tagged

Cat. No. PTPRK-1432H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRK aa. (Thr1185~Ser1440 (Accession # Q15262)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Thr1185~Ser1440
Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions. Expression of this gene was found to be stimulated by TGF-beta 1, which may be important for the inhibition of keratinocyte proliferation.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.3kDa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%
Characteristic	The isoelectric point is 6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PTPRK protein tyrosine phosphatase, receptor type K [Homo sapiens (human)]
Official Symbol	PTPRK
Synonyms	R-PTP-kappa; dJ480J14.2.1 (protein tyrosine phosphatase, receptor type, K (R-PTP-KAPPA, protein tyrosine phosphatase kappa ,; protein tyrosine phosphatase kappa; protein-tyrosine phosphatase kappa; protein-tyrosine phosphatase, receptor type, kappa; receptor-type tyrosine-protein phosphatase kappa

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Gene ID	5796
mRNA Refseq	NM_001135648.2
Protein Refseq	NP_001129120.1
UniProt ID	Q15262

SDS-PAGE

