

## Recombinant Rat Ppp1r1b, Phosphorylated

Cat. No. Ppp1r1b-2634R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Protein Phosphatase 1, Regulatory (Inhibitor) Subunit 1B is expressed in <i>E. coli</i> and phosphorylated on Thr34 by cAMP-dependent protein kinase (PKA).
<b>Species</b>	Rat
<b>Source</b>	<i>E. coli</i>
<b>Description</b>	Midbrain dopaminergic neurons play a critical role in multiple brain functions, and abnormal signaling through dopaminergic pathways has been implicated in several major neurologic and psychiatric disorders. One well-studied target for the actions of dopamine is DARPP32. In the densely dopamine- and glutamate-innervated rat caudate-putamen, DARPP32 is expressed in medium-sized spiny neurons that also express dopamine D1 receptors.
<b>Form</b>	White lyophilized solid.
<b>Molar Mass</b>	32000Da.
<b>Solubility</b>	50 mM Tris-HCl buffer, pH 7.0.
<b>Purity</b>	≥95% by SDS-PAGE.
<b>Storage</b>	≤ -20°C. Ship: Dry Ice Only.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

## GENE INFORMATION

**Gene Name** Ppp1r1b protein phosphatase 1, regulatory (inhibitor) subunit 1B [ Rattus norvegicus ]

**Synonyms**

Ppp1r1b; protein phosphatase 1, regulatory (inhibitor) subunit 1B; dopamine- and cAMP-regulated neuronal phosphoprotein; dopamine- and cAMP-regulated phosphoprotein DARPP-32; neuronal phosphoprotein DARPP-32; protein phosphatase 1 regulatory subunit 1B; Darpp-32; Darpp32

**Gene ID** 360616

**mRNA Refseq** NM\_138521

**Protein Refseq** NP\_612530

**UniProt ID** Q6J4I0

**Chromosome Location** 10q31

**Function** phosphoprotein phosphatase inhibitor activity; receptor binding

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