

Active Recombinant Rat Dyrk1a protein, GST-tagged

Cat. No. DYRK1A-1990R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Dyrk1a fused with GST tag at N-terminal was expressed in E. coli.
Species	Rat
Source	E.coli
Description	<p>DYRK1 A or dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A is a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family which contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat.</p> <p>DYRK1A participates in various cellular processes. DYRK1A is a highly conserved gene located in the so-called Down Syndrome critical region (DSCR) on part of chromosome 21 that is responsible for the majority of phenotypic features in Down syndrome (1). DYRK1A plays a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. DYRK1A is also contributing to early onset of Alzheimer disease.</p>
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	1200 nmol/min/mg
Molecular Mass	~100 kDa
Purity	>70%

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Applications	Kinase Assay, Western Blot
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at -70 centigrade. 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.
GENE INFORMATION	
Gene Name	Dyrk1a dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A [Rattus norvegicus]
Official Symbol	Dyrk1a
Synonyms	DYRK1A; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A; dual specificity tyrosine-phosphorylation-regulated kinase 1A; MNBH; RP86; protein kinase minibrain homolog; Dual Specificity Yak1-related kinase; Dyrk; PSK47;
Gene ID	25255
mRNA Refseq	NM_012791
Protein Refseq	NP_036923
UniProt ID	Q63470
Chromosome Location	11q11
Pathway	Hedgehog Signaling Pathway, organism-specific biosystem;

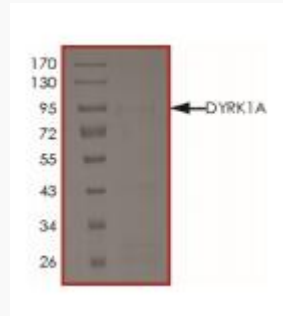
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Function

ATP binding; non-membrane spanning protein tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein self-association; protein self-association; protein serine/threonine kinase activity; protein tyrosine kinase activity;



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