

Recombinant Full Length Human DYRK1A Protein, C-DDK-tagged

Cat. No. DYRK1A-1346HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DYRK1A Protein, fused to DDK-tag at C-terminus, was expressed in Sf9.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. This gene is a homolog of Drosophila mnb (minibrain) gene and rat Dyrk gene. It is localized in the Down syndrome critical region of chromosome 21, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. Alternative splicing of this gene generates several transcript variants differing from each other either in the 5' UTR or in the 3' coding region. These variants encode at least five different isoforms.
Form	50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol.
Molecular Mass	85.6 kDa

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AA Sequence	A DNA sequence from TrueORF clone, RC212584, encoding human full-length DYRK1A.
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Full Length	Full L.

GENE INFORMATION

Gene Name	DYRK1A dual specificity tyrosine phosphorylation regulated kinase 1A [Homo sapiens (human)]
Official Symbol	DYRK1A
Synonyms	MNB; DYRK; HP86; MNBH; MRD7; DYRK1
Gene ID	1859
mRNA Refseq	NM_001396.5

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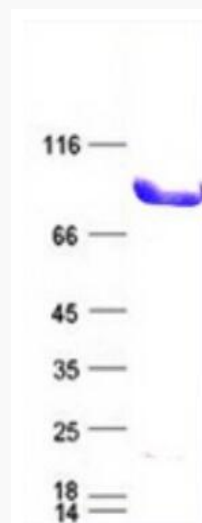
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Protein Refseq NP_001387.2

MIM 600855

UniProt ID Q13627

SDS-PAGE



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