

Recombinant Human DYRK1A, His-tagged

Cat. No. DYRK1A-227H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DYRK1A, 159-479aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	159-479aa
Description	DYRK1A is 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. Recombinant human DYRK1A protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	39.4 kDa (343aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH RSYEIDSLIG KGSFGQVVKA YDRVEQEWWA IKIKNKKAF LNQAQIEVRL LELMNKHDTE MKYYIVHLKR HFMFRNHLCL VFEMLSYNLY DLLRNTNFRG VSLNLTRKFA QQMCTALLFL ATPELSIHC DLKPENILLC NPKRSAIKIV DFGSSCQLGQ RIYQYIQSRF YRSPEVLLGM PYDLAIDMWS LGCILVEMHT GEPLFSGANE VDQMKNKIVEV LGIPPAHILD

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QAPKARKFFE KLPDGTWSLK KTKDGKREYK PPGTRKLHNI LGVETGGPGG
RRAGESGHTV ADYLKFKDLI LRMLDYDPKT RIQPYYALQH SFF

Purity >80 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [DYRK1A dual-specificity tyrosine-\(Y\)-phosphorylation regulated kinase 1A \[Homo sapiens \]](#)

Official Symbol DYRK1A

Synonyms DYRK1A; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A; DYRK, DYRK1, MNBH; dual specificity tyrosine-phosphorylation-regulated kinase 1A; hMNB; MNB/DYRK protein kinase; serine/threonine kinase MNB; mnb protein kinase homolog hp86; protein kinase minibrain homolog; dual specificity YAK1-related kinase; serine/threonine-specific protein kinase; MNB; DYRK; HP86; MNBH; MRD7; DYRK1;

Gene ID [1859](#)

mRNA Refseq [NM_001396](#)

Protein Refseq [NP_001387](#)

MIM [600855](#)

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UniProt ID	Q13627
Chromosome Location	21q22.13
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; G0 and Early G1, organism-specific biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Mitotic G1-G1/S phases, organism-specific biosystem;
Function	ATP binding; kinase activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein kinase activity; protein self-association; protein self-association; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity;

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