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-histidin6e 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 YDRVEQEWVA IKIIKNKKAF LNQAQIEVRL LELMNKHDTE MKYYIVHLKR HFMFRNHLCL VFEMLSYNLY DLLRNTNFRG VSLNLTRKFA QQMCTALLFL ATPELSIIHC DLKPENILLC NPKRSAIKIV DFGSSCQLGQ RIYQYIQSRF YRSPEVLLGM PYDLAIDMWS LGCILVEMHT GEPLFSGANE VDQMNKIVEV LGIPPAHILD

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

	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

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

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;

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