Recombinant Rat DYRK1A protein

Catalog Number: ATGP2720

PRODUCT INFORMATION

Expression system
E.coli

Domain
159-479aa

UniProt No.
Q63470

NCBI Accession No.
NP_036923

Alternative Names
Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, Dual Specificity Yak1-related kinase, Dyrk; PSK47

PRODUCT SPECIFICATION

Molecular Weight
39.4 kDa (343aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 rat DYRK1A protein, fused to His-tag at N-terminus, was

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expressed in E. coli.

Amino acid Sequence

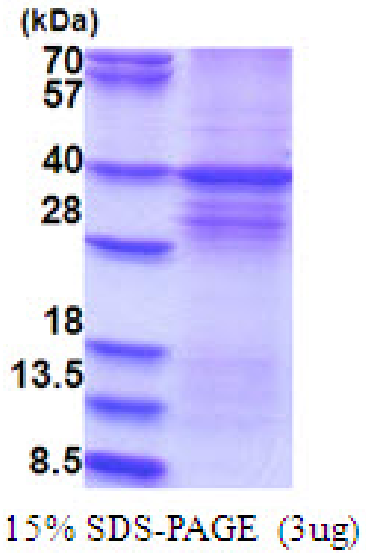
<MGSSHHHHHH SSGLVPRGSH RS>YEIDSLIG KGSFGQVVKA YDRVEQEWVA IKIIKNKKAF LNQAQIEVRL LELMNKHDTE MKYYIVHLKR HFMFRNHLCL VFEMLSYNLY DLLRNTNFRG VSLNLTRKFA QQMCTALLFL ATPELSIIHC DLKPENILLC NPKRSAIKIV DFGSSCQLGQ RIYQYIQSRF YRSPEVLLGM PYDLAIDMWS LGCILVEMHT GEPLFSGANE VDQMNKIVEV LGIPPAHILD QAPKARKFFE KLPDGTWSLK KTKDGKREYK PPGTRKLHNI LGVETGGPGG RRAGESGHTV ADYLKFKDLI LRMLDYDPKT RIQPYYALQH SFF

General References

Pryor A., Tung L. et al. (2004). Nucleic Acids Res. 32:1857-1865

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.