

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

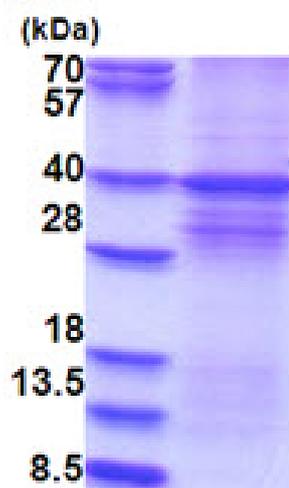
<MGSSHHHHHH SSGLVPRGSH RS>YEIDSLIG KGSFGQVVKA YDRVEQEWVA IKIKNKKAF LNQAQIEVRL LELMNKHDTE
MKYYIVHLKR HFMFRNHLCL VFEMLSYNLY DLLRNTNFRG VSLNLTRKFA QQMCTALLFL APELSIIHC DLKPENILLC
NPKRSAIKIV DFGSSCQLGQ RIYQYIQSRF YRSPEVLLGM PYDLAIDMWS LGCILVEMHT GEPLFSGANE VDQMNKIVEV
LGIPPAHILD QAPKARKFFE KLPDGTWSLK KTKDGGKREYK 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



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

15% SDS-PAGE (3ug)