

DYRK1A, 159-479aa, Human, His tag, E.coli

Cat.NO.: TP01950

3th Edition

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

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 Weight:39.4 kDa (343 aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHRSYEIDSLIGKGSFGQVVKAYDRVEQEWVAIKIKNKKAFLNQAQIEVRLLLELMNKH
DTEMKYYIVHLKRHFMRNHLCLVFEMLSYNLYDLLRNTNFRGVSLNLRKFAQQMCTALLFLATPELSIIHCDLKPE
NILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGMPYDLAIDMWSLGCILVEMHTGEPLFSGANEVDQ
MNKIVEVLGIPPAHILDQAPKARKFFEKLPGDTWSLKKTKDGKREYKPPGTRKLHNILGVETGGPGGRRAGESGHT
VADYLKFKDLILRMLDYDPKTRIQPYALQHSFF

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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