

Dual-Specificity Tyrosine-(Y)-Phosphorylation Regulated 1A Human Re-

Item Number rAP-1731

Synonyms Dual Specificity Yak1-related kinase, Dyrk; PSK47, Dual specificity tyrosine-phosphorylation-regulated kinase 1A, Dual specificity YAK1-related kinase, Protein kinase minibrain homolog, RP86, Dyrk1a, MNBH.

Description DYRK1A Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (159-479a.a) and having a molecular mass of 39.4kDa. DYRK1A is fused to a 22 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Uniprot Accesion Number Q63470

Amino Acid Sequence MGSSHHHHHH SSGLVPRGSH RSYEIDSLIG KGSFGQVVKA YDRVEQEWVA IKIINKKAF LNQAQIEVRL LELMNKHDT MKYYIVHLKR HFMFRNHCL VFEMLSYNLY DLLRNTNFRG VSLNLTRK-FA QQMCTALLFL ATPELSIHC DLKPENILLC NPKRSAIKIV DFGSSCQLGQ RIYQYIQSRF YR-SPEVLLGM PYDLAIDMWS LGCILVEMHT GEPLFSGANE VDQMNKIVEV LGIPPAHILD QAPKARKFFE KLPDGTWSLK KTKDGKREYK PPGTRKLHNI LGVETGGPGG RRAGESGHTV ADYLKFKDLI LRM-LDYDPKT RIQPYYALQH SFF.

Source Escherichia Coli.

Physical Appearance and Stability Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Formulation and Purity The DYRK1A solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea. Greater than 80% as determined by SDS-PAGE.

Application

Solubility

Biological Activity

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**