DYRK1A recombinant protein

DYRK1A, Active

CATALOG #	HOST	APPLICATIONS
AAA73397	**E Coli**	**Western Blot**

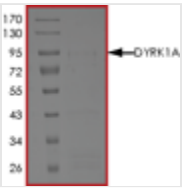
PRODUCT SYNONYMS

DYRK1A; Active; DYRK; PSK47; DYRK1A recombinant protein

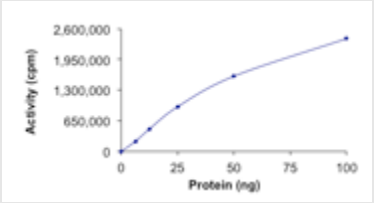
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for DYRK1A recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Rat
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for DYRK1A recombinant protein	Recombinant full-length rat DYRK1A was expressed in E Coli cells using an N-terminal GST tag. The protein accession number is Q63470-2. DYRK1 A or dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A is a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family which contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. DYRK1A participates in various cellular processes. DYRK1A is a highly conserved gene located in the so-called Down Syndrome critical region (DSCR) on part of chromosome 21 that is responsible for the majority of phenotypic features in Down syndrome (1). DYRK1A plays a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. DYRK1A is also contributing to early onset of Alzheimer disease (2).
Product Categories/Family for DYRK1A recombinant protein	Protein Kinases; AKT/PKB Pathway; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Inflammation; Invasion/Metastasis; Metabolic Disorder; Neurobiology; NfkB Pathway; Ser/Thr Kinases; WNT Signaling

References	1. van Bon, B. et al: Intragenic deletion in DYRK1A leads to mental retardation and primary microcephaly. Clin. Genet. 79: 296-299, 2011. 2. Ryoo, S. R. et al: DYRK1A-mediated hyperphosphorylation of tau: a functional link between Down syndrome and Alzheimer disease. J. Biol. Chem. 282: 34850-34857, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978787
NCBI GeneID	25255
NCBI Accession #	NP_036923
NCBI GenBank Nucleotide #	NM_012791.3
UniProt Accession #	Q63470
Molecular Weight	39.4 kDa (343 aa)
NCBI Official Full Name	dual specificity tyrosine-phosphorylation-regulated kinase 1A
NCBI Official Synonym Full Names	dual specificity tyrosine phosphorylation regulated kinase 1A
NCBI Official Symbol	Dyrk1a
NCBI Official Synonym Symbols	Dyrk; PSK47
NCBI Protein Information	dual specificity tyrosine-phosphorylation-regulated kinase 1A
UniProt Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 1A
UniProt Gene Name	**Dyrk1a**
UniProt Synonym Gene Names	Dyrk; MNBH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/dyrk1a-recombinant-protein-e-coli-wb-western-blot-kinase-assay/73397