

Active Recombinant Human DYRK3 Protein, GST-tagged

Cat. No. DYRK3-2989H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DYRK3 (NP_003573.2, 1 a.a. - 588 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
Description	This gene product belongs to the DYRK family of dual-specificity protein kinases that catalyze autophosphorylation on serine/threonine and tyrosine residues. The members of this family share structural similarity, however, differ in their substrate specificity, suggesting their involvement in different cellular functions. The encoded protein has been shown to autophosphorylate on tyrosine residue and catalyze phosphorylation of histones H3 and H2B in vitro. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: DYRKtide-F. ATP: 100 μM.

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Molecular Mass	93 kDa
Purity	93 % by SDS-PAGE/CBB staining
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

GENE INFORMATION

Gene Name	DYRK3 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3 [Homo sapiens]
Official Symbol	DYRK3
Synonyms	DYRK3; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3; dual specificity tyrosine-phosphorylation-regulated kinase 3; dual specificity tyrosine (Y) phosphorylation regulated kinase 5; hYAK3 2; protein kinase Dyrk3; RED; REDK; regulatory erythroid kinase; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 5; DYRK5; hYAK3-2;
Gene ID	8444
mRNA Refseq	NM_001004023
Protein Refseq	NP_001004023
MIM	603497

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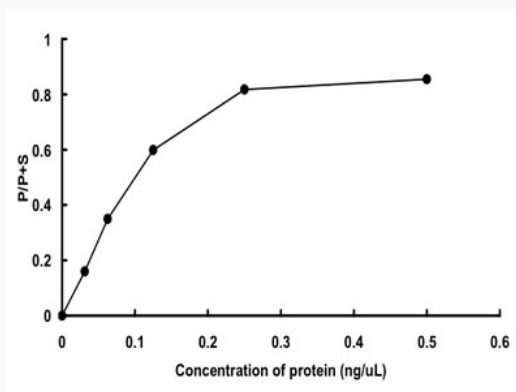
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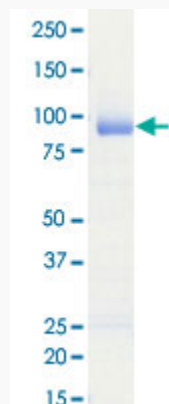
UniProt ID

O43781

Result of activity
analysis



Quality Control
Testing



Loading 1 µg protein in SDS-PAGE

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