

Bioactive

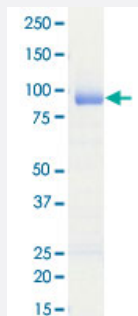
Full-Length

DYRK3 (Human) Recombinant Protein

Catalog # P5542

Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human DYRK3 (NP_003573.2, 1 a.a. - 588 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	93
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	93 % by SDS-PAGE/CBB staining

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 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — DYRK3

Entrez GeneID	8444
Protein Accession#	NP_003573.2
Gene Name	DYRK3
Gene Alias	DYRK5, RED, REDK, hYAK3-2
Gene Description	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3
Omim ID	603497
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000034527 OTTHUMP00000034528 OTTHUMP00000034529 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 5 protein kinase Dyk3 regulatory erythroid kinase