

**Catalog No.: RP03434LQ** **Recombinant**

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 8445    | O92630     |

**Tags**  
N-GST

DYRK2; Dual specificity tyrosine-phosphorylation-regulated kinase 2

|                          |  |
|--------------------------|--|
| <b>Source</b><br>E. coli | <b>Purification</b><br>≥ 80 % as determined by SDS-PAGE; ≥ 80 % as determined by HPLC. |
|--------------------------|--|

| Calculated MW | Observed MW |
|---------------|-------------|
| 93.0 kDa      | 80-100 kDa  |

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 5% glycerol. (pH 8.0). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

☎ | 400-999-6126

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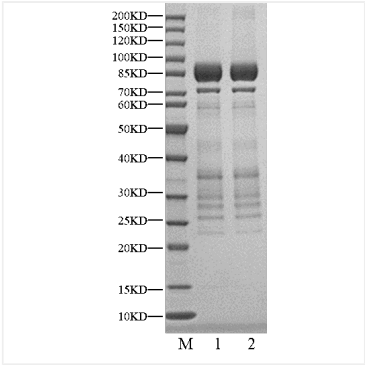
Dual specificity tyrosine-phosphorylation-regulated kinase 2 is an enzyme, in particular a dual-specificity kinase, that in humans is encoded by the DYRK2 gene. DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B *in vitro*.

Recombinant Human DYRK2 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Leu2-Ser601) of Human DYRK2 (Accession #O92630) fused with a N-GST tag.

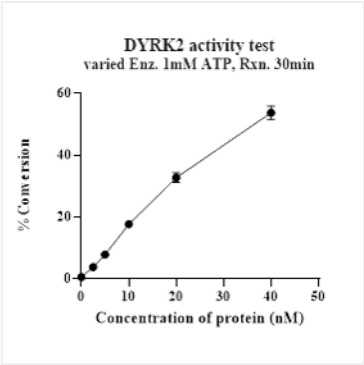
The activity of DYRK2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Aliquots below 10  $\mu\text{L}$  are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

# Validation Data



Recombinant Human DYRK2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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