

Catalog No.: RP03443LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	8798	O9NR20

Synonyms
DYRK4; Dual specificity tyrosine-phosphorylation-regulated kinase 4

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

Calculated MW	Observed MW
86.1 kDa	85-100 kDa


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

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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DYRK4 is a member of the conserved dual-specific tyrosine phosphorylation-regulated kinase (DYRK) family, which contains five members (DYRK1A, DYRK1B, DYRK2, DYRK3, and DYRK4) and has a conserved N-terminal DYRK homology cassette (DH) and an adjacent kinase domain. It has a highly conserved Tyr-X-Tyr amino acid motif in the catalytic domain of the activation loop, and phosphorylation of the second tyrosine residue is essential for full activation of DYRKs, with mature DYRKs phosphorylating only serine or threonine residues on the substrate. In contrast to other DYRKs, little is known about the function of DYRK4, and no substrate has been identified for this kinase. It has been reported that mouse and rat *Dyrk4* is a testis-specific kinase predominantly expressed in the testis. However, *Dyrk4*-deficient mice are fertile, which may be redundant in terms of function because DYRKs are strongly expressed in the testis.

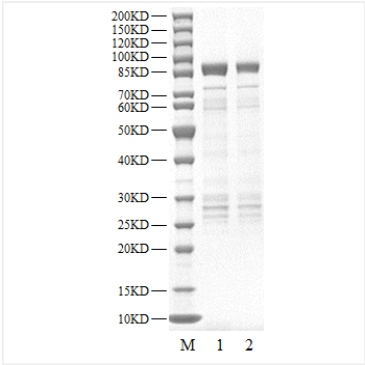
Recombinant Human DYRK4 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Pro2-Val520) of Human DYRK4 (Accession #Q9NR20) fused with a N-GST tag.

The activity of DYRK4 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.

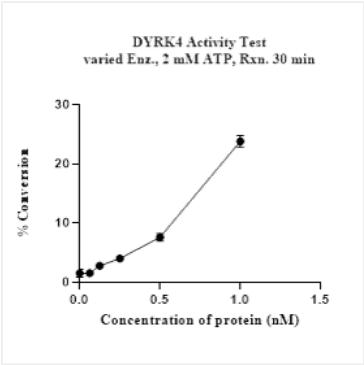
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

Validation Data



Recombinant Human DYRK4 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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