Recombinant Human DYRK4 Kinase

Catalog No.: RP03443LQ

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Sequence Information

Species
Human

Gene ID
8798

Swiss Prot
Q9NR20

Tags
N-GST

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
86.1 kDa

Observed MW
85-100 kDa

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

Formulation
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.

Reconstitution
Please use running water to thaw it quickly.

Background

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.

Basic Information

Description
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.

Activity
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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

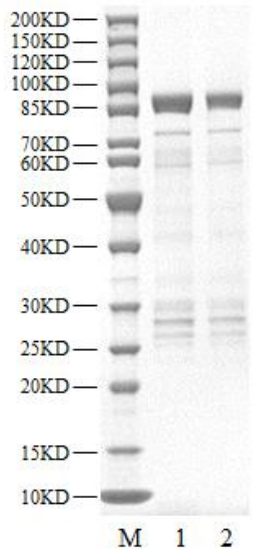
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

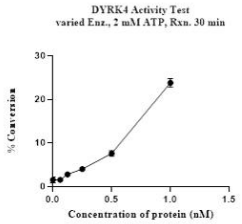
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Validation Data



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



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