Recombinant Human DYRK1A Kinase

Catalog No.: RP03419LQ

Sequence Information

Species
Human

Gene ID
1859

Swiss Prot
Q13627

Tags
N-His

Synonyms
DYRK1A; DYRK; MNB; MNBH; HP86; Dual specificity YAK1-related kinase; Protein kinase minibrain homolog; Dual specificity tyrosine-phosphorylation-regulated kinase 1A

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
41.8 kDa

Observed MW
30-40 kDa

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

Formulation
Supplied as a 0.22 μm filtered solution in 20 mM HEPES, 150 mM NaCl, 1 mM TCEP, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

DYRK1A is a member of the dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. DYRK1A has also been shown to modulate plasma homocysteine levels in a mouse model of overexpression. DYRK1A is considered to be a strong candidate gene for learning defects associated with Down syndrome.

Basic Information

Description
Recombinant Human DYRK1A Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Ser127-Glu485) of Human DYRK1A (Accession #Q13627) fused with a N-His tag.

Activity
The activity of DYRK1A 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℃

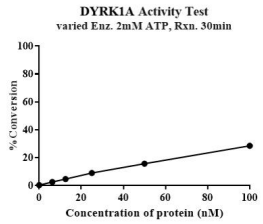
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

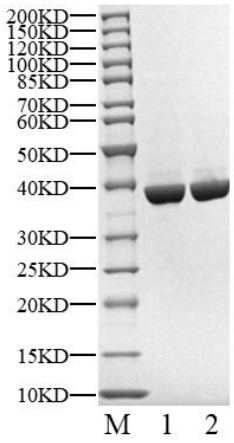
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of DYRK1A 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.



Recombinant Human DYRK1A Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.