Recombinant Human HIPK3/DYRK6 Kinase

Catalog No.: RP03440LQ

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Sequence Information

Species
Human

Gene ID
10114

Swiss Prot
Q9H422

Tags
N-GST

Synonyms
HIPK3; DYRK6; FIST3; PKY; ANPK; Androgen receptor-interacting nuclear protein kinase; FIST; Fas-interacting serine/threonine-protein kinase; Homolog of protein kinase YAK1; Homeodomain-interacting protein kinase 3

Product Information

Source
Baculovirus-Insect Cells

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

Calculated MW
72.5 kDa

Observed MW
60-75 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, 500 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

Homeodomain-interacting protein kinase 3 is an enzyme that in humans is encoded by the HIPK3 gene. The HIPK family, comprising four members (HIPK1-4), exhibits distinct characteristics, with HIPK3 sharing around 87 % identity with HIPK1 and HIPK2 in the kinase domain. A study found that the expression levels of HIPK3 mRNA and protein were significantly down-regulated in human non-small cell lung cancer (NSCLC) tissues, and HIPK3 silencing promoted the invasion and metastasis of NSCLC. Thus, HIPK3 may be a valuable biomarker for predicting the prognosis of patients with non-small cell lung cancer. In addition, HIPK3 may also be a novel kinase regulator of autophagy in Huntington disease (HD) cells, contributing to the accumulation of proteins and disease progression. Targeting HIPK3 may provide drug discovery opportunities for the treatment of HD and similar diseases.

Basic Information

Description
Recombinant Human HIPK3/DYRK6 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Pro161-Asn562) of Human HIPK3 (Accession #Q9H422) fused with a N-GST tag.

Activity
The activity of HIPK3 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℃

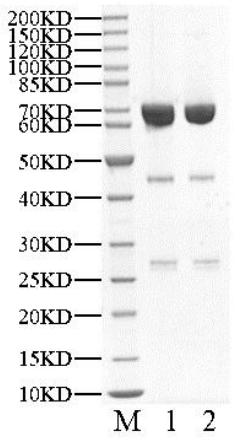
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

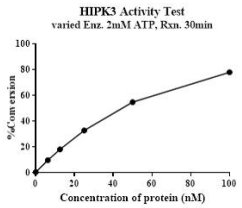
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Validation Data



Recombinant Human HIPK3/DYRK6 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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