

HIPK3 recombinant protein

Recombinant HIPK3 (163-562) protein

CATALOG # AAA60235	HOST Baculovirus
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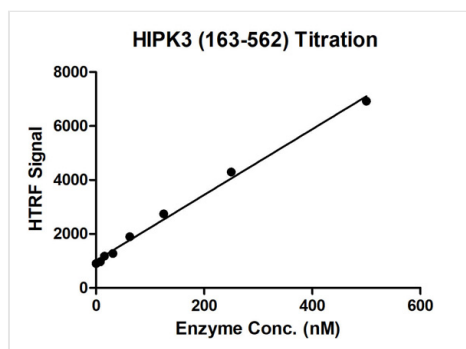
PRODUCT SYNONYMS

HIPK3; Recombinant HIPK3 (163-562) protein; Homeodomain Interacting Protein Kinase 3; DYRK6; FIST3; YAK1; HIPK3 recombinant protein

PRODUCT SPECIFICATIONS

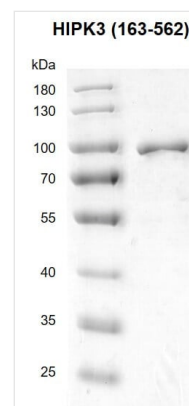
Host	Baculovirus
Form/Format	Recombinant HIPK3 (163-562) protein is supplied in 25mM HEPESNaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant HIPK3 (163-562) protein that includes amino acids 163-562 of human HIPK3 protein (accession number NP_005725.3) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

HTRF assay for HIPK3 (163-562) activity 1 μ M STK S3 substrate was incubated with different concentrations of HIPK3 (163-562) protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, and 100 μ M ATP for 1 hour. Then 10 μ l detection reagents containing STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant HIPK3 (163-562) protein 10% SDS-PAGE gel with Coomassie blue staining
MW: 46.6 kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for HIPK3 recombinant protein	Background: HIPK3 (Homeodomain Interacting Protein Kinase 3), also known as FIST. It is a serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression, HIPK3 phosphorylates JUN and RUNX2. It seems to negatively regulate apoptosis by promoting FADD phosphorylation and enhances androgen receptormediated transcription. It may also act as a transcriptional co-repressor for NK homeodomain transcription factors. In osteoblasts, HIPK3 supports transcription activation and phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2 mediated activation of the osteocalcin FGF-responsive element (OCFRE).
Product Categories/Family for HIPK3 recombinant protein	Recombinant Proteins ; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	114796624
NCBI GeneID	10114
NCBI Accession #	NP_005725.3
NCBI GenBank Nucleotide #	NM_005734.4
UniProt Accession #	Q9H422; O14632; Q2PBG4; Q2PBG5; Q92632; Q9HAS2
Molecular Weight	131,256 Da
NCBI Official Full Name	homeodomain-interacting protein kinase 3 isoform 1
NCBI Official Synonym Full Names	homeodomain interacting protein kinase 3
NCBI Official Symbol	HIPK3
NCBI Official Synonym Symbols	PKY; YAK1; DYRK6; FIST3
NCBI Protein Information	homeodomain-interacting protein kinase 3; ANPK; FIST; homolog of protein kinase YAK1; fas-interacting serine/threonine-protein kinase; androgen receptor-interacting nuclear protein kinase
UniProt Protein Name	Homeodomain-interacting protein kinase 3
UniProt Gene Name	HIPK3
UniProt Synonym Gene Names	DYRK6; FIST3; PKY; ANPK; FIST
UniProt Entry Name	HIPK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hipk3-recombinant-protein-baculovirus/60235>