TNNI3K recombinant protein

TNNI3K, Active

CATALOG #	HOST	APPLICATIONS
AAA74060	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

TNNI3K; Active; CARK; CCDD; TNNI3K recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for TNNI3K recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
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	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for TNNI3K recombinant protein	Recombinant human TNNI3K (300-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC117262. The Cardiac Troponin I -interacting kinase (TNNI3K) is a serine/threonine-protein kinase, that is a member of the MAPKKK family (1). As a cardiac-specific kinase, it contains Ankyrin repeat, protein kinase, and serine-rich domains and highly expressed in the cardiomyocytes (1). Overexpression of TNNI3K has been shown to increase the progression of cardiomyopathy in mice through the Tyr and Ser/Thr kinase activity (2). The TNNI3K mutation has been involved in a familial syndrome of conduction system disease and dilated cardiomyopathy by causing the aggregation of this protein (3).
Product Categories/Family for TNNI3K recombinant protein	Protein Kinases; Cardiovascular Disease

References	1. Y. Zhao, et al: Cloning and characterization of a novel cardiac-specific kinase that interacts specifically with cardiac troponin I. J Mol Med. 81: 297-304, 2003. 2. H. Tang, et al: Overexpression of TNNI3K, a cardiac specific MAPKKK, promotes cardiac dysfunction. J Mol Cell Cardiol. 54: 101-111, 2013. 3. J. L. Theis, et al: TNNI3K mutation in familial syndrome of conduction system disease, atrial tachyarrhythmia and dilated cardiomyopathy. Human Molecular Genetics. 23: 5793-5804, 2014.

NCBI AND UNIPROT INFORMATION

Molecular Weight	~87kDa

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.

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Online datasheet: https://stage.aaabiotech.com/tnni3k-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74060