

DAPK3/ZIPK active protein

Recombinant DAPK3/ZIPK protein

CATALOG #
AAA60341

HOST
Baculovirus

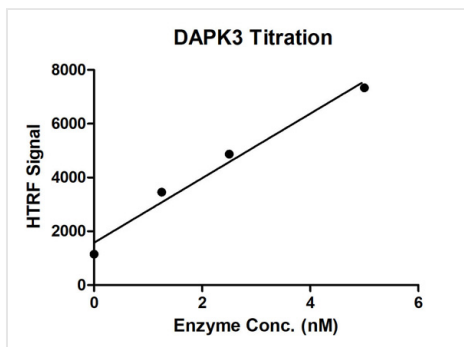
PRODUCT SYNONYMS

DAPK3/ZIPK; Recombinant DAPK3/ZIPK protein; Death Associated Protein Kinase 3; DAP Kinase 3; ZIPK; Ziper interacting protein kinase; DAPK3/ZIPK active protein

PRODUCT SPECIFICATIONS

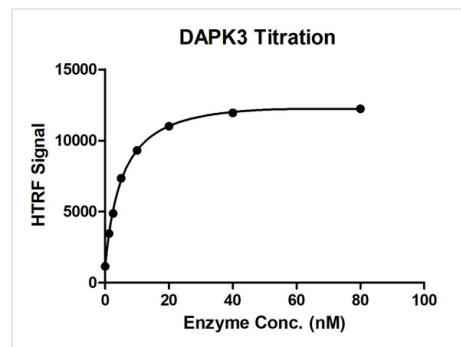
Host	Baculovirus
Purity/Purification	>=85%
Form/Format	Recombinant DAPK3/ZIPK protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant DAPK3/ZIPK protein was expressed in baculovirus expression system as the full length protein (accession number NP_001339.1) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 53.8 kDa.
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.

IMAGES



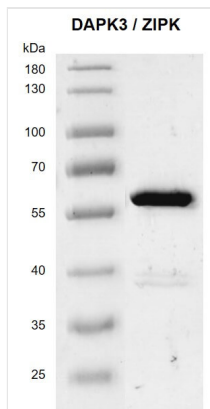
Bioactivity

HTRF assay for DAPK3/ZIPK; activity 1 μ M STK S1 substrate was incubated with different concentrations of DAPK3/ZIPK; protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 10 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. The detection reagents were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature.



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SDS-PAGE

Recombinant DAPK3/ZIPK protein 10% SDS-PAGE Coomassie staining MW: 53.8 kDa Purity: >= 90%

ADDITIONAL INFORMATION

Related Product Information for DAPK3/ZIPK active protein

DAPK3 (Death Associated Protein Kinase 3), a serine/threonine kinase which is involved in the regulation of apoptosis, autophagy, transcription, translation and actin cytoskeleton reorganization. This protein is involved in the regulation of smooth muscle contraction and regulates both type I (caspase-dependent) apoptotic and type II (caspaseindependent) autophagic cell deaths signal, depending on the cellular setting. DAPK3 is involved in regulation of starvation-induced autophagy and regulates myosin phosphorylation in both smooth muscle and non-muscle cells. In smooth muscle, DAPK3 regulates myosin either directly by phosphorylating MYL12B and MYL9 or through inhibition of smooth muscle myosin phosphatase (SMPP1M) via phosphorylation of PPP1R12A; the inhibition of SMPP1M functions to enhance muscle responsiveness to Ca(2+) and promote a contractile state. DAPK3 phosphorylates MYL12B in non-muscle cells leading to reorganization of actin cytoskeleton. Isoform 2 can phosphorylate myosin, PPP1R12A and MYL12B.

Product Categories/Family for DAPK3/ZIPK active protein

Kinase; Recombinant Proteins

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/baculovirus-active-protein/dapk3-zipk/60341>