

Recombinant Human TAK1-TAB1, GST-tagged, Active

TAK1-TAB1-440H Human
Lot. No. (See product label)

Specification

Product Overview Recombinant human proteins TAK1 (1-303) and TAB1 (437-end), linked by a small peptide (DFGGGGG), were expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 74 kDa.

Description TAK1 is a serine/threonine protein kinase that mediates signaling by TGF β and morphogenetic protein (BMP). In response to IL-1, TAK1 forms a kinase complex with TAB1 and this complex is required for the activation of nuclear factor kappa B (Nf κ B). TAK1 can also activate MAPK8/JNK and MAP2K4/MKK4 and thus play a role in the cell response to environmental stress. Tak1 is essential for thymocyte development and activation and deletion of TAK1 prevents maturation of single-positive thymocytes displaying CD4 or CD8. Thymocytes lacking TAK1 fail to activate Nf κ B and JNK and are prone to apoptosis upon stimulation.

Source Sf9 insect cells using baculovirus.

Sequence TAK1 (1-303) and TAB1 (437-end)), linked by a small peptide (DFGGGGG).

Applications Kinase Assay, Western Blot.

Storage And Stability Store product at -70. 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.

Gene Information

Gene Name [MAP3K7 mitogen-activated protein kinase kinase kinase 7 \[Homo sapiens \]](#), [MAP3K7IP1 mitogen-activated protein kinase kinase kinase 7 interacting protein 1 \[Homo sapiens \]](#)

Synonyms MAP3K7; mitogen-activated protein kinase kinase kinase 7; TAK1; MEKK7; TGF1a; TGF-beta activated kinase 1; transforming growth factor-beta-activated kinase 1; EC 2.7.11.25; OTTHUMP00000016870; OTTHUMP00000016871; OTTHUMP00000016872; OTTHUMP00000016873; TGF-beta-activated kinase 1; TAB1; 3'-Tab1; MGC57664; MAP3K7IP1; mitogen-activated protein kinase kinase kinase 7 interacting protein 1; TAK1-binding protein 1; transforming growth factor beta-activated kinase-binding protein 1; Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1

Gene ID [688510454](#)

mRNA Refseq [NM_003188NM_006116](#)

Protein Refseq [NP_003179NP_006107](#)

MIM [602614602615](#)

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UniProt ID O43318Q15750

Chromosome Location 6q16.1-q16.322q13.1

Pathway Adherens junction; MAPK signaling pathway; NOD-like receptor signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Wnt signaling pathway

Function ATP binding; MAP kinase kinase activity; MAP kinase kinase kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity; catalytic activity; kinase activator activity

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