



# Recombinant Human TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 (TAB1)

<b>Product Code</b>	CSB-EP624033HU-B
<b>Abbreviation</b>	TAB1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q15750
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAAQRRLQ SEQQPSWTDD LPLCHLSGVG SASNRSYSAD GKGTESHPPPE DSWLKFRSEN NCFLYGVFNG YDGNRVTNFV AQRLSAELLL GQLNAEHAEA DVRRVLLQAF DVVERSFLS IDDALAEKAS LQSQLPEGVP QHQLPPQYQK ILERLKTLE EISGGAMAVV AVLLNNKLYV ANVGTNRALL CKSTVDGLQV TQLNVDHTE NEDELFRSLQ LGLDAGKIKQ VGIICGQEST RRIGDYKVKY GYTDIDLLSA AKSKPIIAEP EIHGAQPLDG VTGFLVLMSE GLYKALEAAH GPGQANQEIA AMIDTEFAKQ TSLDAVAQAV VDRVKRIHSD TFASGGERAR FCPRHEDMTL LVRNFGYPLG EMSQPTPSA PAAGGRVYPV SVPYSSAQST SKTSVTLSLV MPSQGQMVNG AHSASTLDEA TPTLTNQSPT LTLQSTNTHT QSSSSSSDGG LFRSRPAHSL PPGEDGRVEP YVDFAEFYRL WSVDHGEQSV VTAP
<b>Source</b>	E.coli
<b>Target Names</b>	TAB1
<b>Protein Names</b>	Recommended name: TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 Alternative name(s): Mitogen-activated protein kinase kinase kinase 7-interacting protein 1 TGF-beta-activated kinase 1-binding protein 1 Short name= TAK1-bindin
<b>Expression Region</b>	1-504
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1,



while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.