

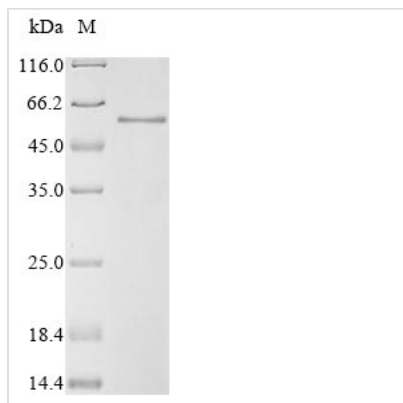


# Recombinant Human Mothers against decapentaplegic homolog 3 (SMAD3)

<b>Product Code</b>	CSB-BP021788HU
<b>Relevance</b>	Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator
<b>Abbreviation</b>	Recombinant Human SMAD3 protein
<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>	P84022
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEK AITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELGRAM ELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEEFPPLDDYSHSI PENTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSM DAGSPNLSPNPM SPAHHNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPS NSERFCLGLLSNVNRNAAVELTRRHIGRGRVRLYYIGGEVFAECLSDSAIFVQSP NCNQRYGWHPATVCKIPPGCNLKIFNNQEF AALLAQSVNQGFEAVYQLTRMC TIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVL TQMGSPSIRCS SVS
<b>Research Area</b>	Transcription
<b>Source</b>	Baculovirus
<b>Target Names</b>	SMAD3
<b>Protein Names</b>	JV15-2SMAD family member 3 ;SMAD 3 ;Smad3 ;hSMAD3



<b>Expression Region</b>	1-425aa
<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>	N-terminal 10xHis-tagged
<b>Mol. Weight</b>	50.6 kDa
<b>Protein Length</b>	Full Length

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Shelf Life**

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