

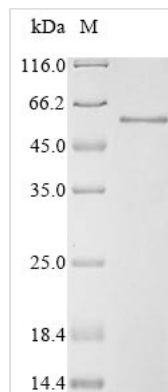


Recombinant Human Mothers against decapentaplegic homolog 3 (SMAD3)

Product Code	CSB-BP021788HU
Relevance	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
Abbreviation	Recombinant Human SMAD3 protein
Storage	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.
Uniprot No.	P84022
Storage Buffer	Tris-based buffer, 50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEK AITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLSHSHELRAM ELCEFAFNMKKDEVCPNPYHYQRVETPVLPPVLVPRHTEIPAEPPLDDYSHSI PENTNFPAGIEPQSNIPETPPPGYLSGETSDHQMNHSMDSAGSPNLSNPM SPAHNNDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPS NSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSP NCNQRYGWHPATVCKIPPGCNLKIFNNQEFALLAQSVNQGFEAVYQLTRMC TIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTMGSPSIRCS SVS
Research Area	Transcription
Source	Baculovirus
Target Names	SMAD3
Protein Names	JV15-2SMAD family member 3 ;SMAD 3 ;Smad3 ;hSMAD3



Expression Region	1-425aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	50.6 kDa
Protein Length	Full Length

Image


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

Description

This Recombinant Human SMAD3 protein is specifically designed to support your transcription research. This full-length protein (1-425aa) is expressed in a Baculovirus expression system and is equipped with an N-terminal 10xHis-tag, facilitating effortless purification and detection. Our SMAD3 protein has a purity of greater than 85% as determined by SDS-PAGE, ensuring consistent performance and reliable results.

Dive into the complex functions of Mothers against decapentaplegic homolog 3 with our premium recombinant protein. Available in both liquid and lyophilized powder forms, our Recombinant Human SMAD3 protein offers the versatility and quality you need to advance your research endeavors and uncover new insights.

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.