



Recombinant Human Mothers against decapentaplegic homolog 3 (SMAD3)

Product Code	CSB-EP021788HU
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
Alias	JV15-2SMAD family member 3 ;SMAD 3 ;Smad3 ;hSMAD3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEK AITTQNVNTKCITIPRSLDGRLQVSHRKGSLPHVIYCRLWRWPDLHSHHEL RAM ELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEEFPPLDDYSHSI PENTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSM DAGSPNLSPNPM SPAHHNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPS NSERFCLGLLSNVNRNAAVELTRRHIGRGRVRLYYIGGEVFAECLSDSAIFVQSP NCNQRYGWHPATVCKIPPGCNLKIFNNQEF AALLAQS VNQGFEAVYQLTRMC TIRMSFVKGWGA EYRRQTVTSTPCWIELHLNGPLQWLDKVL TQMGSPSIRCS SVS
Research Area	Transcription
Source	E.coli
Target Names	SMAD3
Expression Region	1-425aa



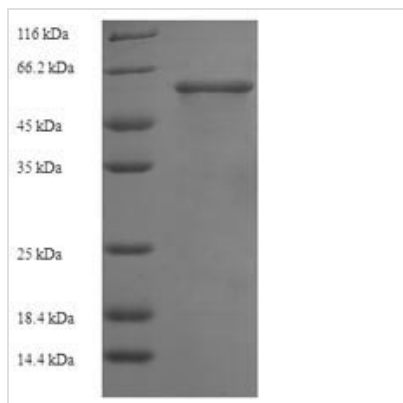
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 6xHis-SUMO-tagged

Mol. Weight 64.1kDa

Protein Length Full Length

Image



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

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

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