

Product datasheet for **TP727108**

SMAD3 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Mothers Against Decapentaplegic Homolog 3/SMAD3 (N-6His-Flag)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser2-Ser425
Tag:	N-His&Flag
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB,500mM NaCl, pH7.4.
Note:	Recombinant Human Mothers Against Decapentaplegic Homolog 3 is produced by our E.coli expression system and the target gene encoding Ser2-Ser425 is expressed with a 6His, Flag tag at the N-terminus.
Stability:	12 months from date of despatch
Locus ID:	4088
UniProt ID:	P84022
Summary:	Mothers against decapentaplegic homolog 3(SMAD3) is a cytoplasm protein which belongs to the dwarfin/SMAD family. Smad proteins undergo rapid nuclear translocation upon stimulation by transforming growth factor and in so doing transduce the signal into the nucleus. Receptor-regulated SMAD is an intracellular signal transducer and transcriptional modulator activated by TGF-beta and activin type 1 receptor kinases. SMAD3 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. It also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. SMAD3 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.



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