

32-8043: Recombinant Human Mothers Against Decapentaplegic Homolog 3/SMAD3 (N-6His-Flag)(Discontinued)

Gene : SMAD3

Gene ID : 4088

Uniprot ID : P84022

Description

Source: E.coli.

MW :50.3kD.

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. 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.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB,500mM NaCl, pH7.5.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : MRGSHHHHHHGS DYKDDDDKSSILPFTPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEK
AITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLSHHHELRAMELCEFAFNMKKDEVCVNPHY
QRVETPVLPPVLVPRHTEIPAEPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSGGETSDHQMNHSM
GSPNLSPNPMSPAHHNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLS
NVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKFNNQEFA
ALLAQSVNQGF EAVYQLTRMCTIRMSFVKGWGA EYRRQTVTSTPCWIELHLNGPLQWLDKVLTMGSPSIRCS
SVS

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.