

SMAD2, 1- 467 aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP03965

3th Edition

Synonyms:Sma- and Mad-related protein 2 isoform 1, hMAD-2, hSMAD2, JV18, JV18-1, MADH2, MADR2, Sma- and Mad-related protein 2 isoform 1 JV181, MAD, MAD Related Protein 2, SMAD2.

Description:SMAD2(Mothers against decapentaplegic homolog 2) belongs to the SMAD family of proteins that mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. Phosphorylated Smad2 is then able to form a complex with Smad4 or SARA. These complexes accumulate in the cell nucleus, where they are directly participating in the regulation of gene expression. Recombinant SMAD2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 20% glycerol

Molecular Weight:54.4 kDa (487aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMSSILPFTPPVVKRLLGWKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKKLK
KTGRLDELEKAITTQNCNTKCVTIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSHRKGPHVIYCR
LWRWPDHLHSHHELKAIENCEYAFNLKKDEVCPNPYHYQRVETPVLPPVLVPRHTEILTELPLDDYTHSIPENTNFP
AGIEPQSNYIPETPPPGYISEDGETSDQQLNQSMGTGSPAELSPPTLSPVNHSLDLQPVTYSEPAFWCSIAYYELNQ
RVGETFHASQPSLTVDGFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSP
NCNQRYGWHPATVCKIPPGCNLKFNNQEFALLAQSVNQGFVAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTP
CWIELHLNGPLQWLDKVLTMGSPSVRCSSMS

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.