

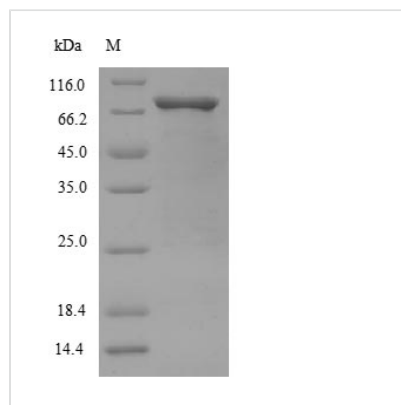


Recombinant Human Mothers against decapentaplegic homolog 2 (SMAD2)

Product Code	CSB-EP618017HUa2
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 SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. 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 SMAD2 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.	Q15796
Alias	JV18-1 Mad-related protein 2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SSILPFTPPVVKRLLGWKKSAGGSGGAGGGGEQNGQEEKWCEKAVKSLVKKLK KTGRLDELEKAITTCNCNTKCVTIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQ TRSLDGRQLQVSHRKGLPHVIYCRLWRWPDHLHSHHELKAIENCEYAFNLKKDEV CVNPYHYQRVETPVLPPVLVPRHTEILTELPLDDYTHSIPENTNFPAGIEPQS NYIPETPPPGYISEDGETSDQQLNQSMGTGSPAELSPPTLSPVNHSLDLQPV YSEPAFWCSIAYYELNQRVGETFHASQPSLTVDGFTDPSNSERFCLGLLSNVN RNATVEMTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPAT VCKIPPGCNLKFNNQEFALLAQSVNQGFVAVYQLTRMCTIRMSFVKGWGAE YRRQTVTSTPCWIELHLNGLPLQWLDKVLTMGSPSVRCSSMS
Source	E.coli
Target Names	SMAD2
Expression Region	2-467aa
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	68.2kDa
Protein Length	Full Length of Mature Protein



Image



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

Description

Discover the exceptional quality of our Recombinant Human SMAD2 protein, engineered for success in your signal transduction research. This full-length mature protein (2-467aa) is expressed in *E. coli* and features an N-terminal 6xHis-SUMO-tag, allowing for seamless purification and detection. With a purity of greater than 90% as determined by SDS-PAGE, our SMAD2 protein delivers reliable performance and reproducible results.

Explore the role and functions of Mothers against decapentaplegic homolog 2 with our premium recombinant protein. Available in both liquid and lyophilized powder forms, our Recombinant Human SMAD2 protein provides the versatility and quality necessary to advance your research endeavors.

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

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.