

SMAD2 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	SMAD2;MAD homolog 2;Mothers against decapentaplegic homolog 2;Mothers against DPP homolog 2;Mad-related protein 2 (hMAD-2);MADH2;SMAD family member 2 (SMAD 2;Smad2;hSMAD2);JV18-1;MADR2
Protein Construction:	2-467 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q15796
Molecular Weight:	68.2 kDa (predicted)
AA Sequence:	SSILPFTPPVVKRLLGWKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKLKKKTGRLDELEKAITTQNCNTK CVTIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSHRKGPHVIYCRLWRWPDLSHHELKAI NCEYAFNLKKDEVCPYHYQRVETPVLPPVLPVPRHTEILTELPPLDDYTHSIPENTNFPAGIEPQSNIYIPETPP PGYISEDGETSDQQLNQSMDTGSPAELSPTTLSPVNHSLDLQPVTYSEPAFWCSIAYYELNQRVGETFHASQP SLTVDGFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRQVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGW HPATVCKIPPGCNLKFNNQFAALLAQSVNQGFVAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELH LNGPLQWLDKVLTMGSPSVRCSSMS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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