

## Recombinant Human SMAD1 Protein

Catalog #	Source	Reactivity	Applications
CRP2318	E. coli	Human	E, WB, SDS-PAGE, MS

<b>Description</b>	Recombinant Human SMAD1 Protein is produced by our E. coli expression system and the target gene encoding Met1-Ser465 is expressed with a GST tag at the N-terminus.
<b>Form</b>	Lyophilized from a 0.2 μM filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
<b>Gene Symbol</b>	SMAD1
<b>Alternative Names</b>	BSP1; MADH1; MADR1; Mothers against decapentaplegic homolog 1; MAD homolog 1; Mothers against DPP homolog 1; JV4-1; Mad-related protein 1; SMAD family member 1; SMAD 1; Smad1; hSMAD1; Transforming growth factor-beta-signaling protein 1; BSP-1
<b>Entrez Gene</b>	4086 (Human)
<b>SwissProt</b>	Q15797 (Human)
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Chemical Structure</b>	MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLP EML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSHMNVTSLFSFTSPA VKRLLGWKQG DEEEKWAEKA VDALVKKLKK KKGAMEELEK ALSCPGQPSN CVTIPRSLDG RLQVSHRKGL PHVIYCRVWR WPD LQSHHEL KPLECCEFPF GSKQKEVCIN PYHYKRVESP VLPPVLVPRH SEYNPQHSLL AQFRNLGQNE PHMPLNATFP DSFQQPN SHP FPHSPNSSYP NSPGSSSSTY PHSPTSSDPG SPFQMPADTP PPAYLPPEDP MTQDGSQPMD TNMMAPPLPS EINRGDVQAV AYEEPKHWC S IVYYELNNRV GEAFHASSTS VLVDGFTDPS NNKNRFCLGL

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

LSNVNRNSTI ENTRRHIGKG VHLYYVGGEV YAECLSDSSI FVQSRNCNYH HGFHPTTVCK  
IPSGCSLKIF NNQEFAQLLA QSVNHGFETV YELTKMCTIR MSFVKGWGAE YHRQDVTSTP  
CWIEIHLHGP LQWLDKVLQ MGSPHNPISS VS

## Quality Control

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

## Directions for Use

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 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Storage/Stability

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

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