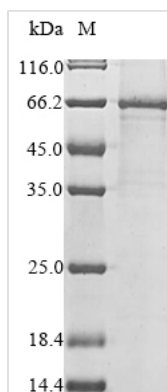




Recombinant Human Mothers against decapentaplegic homolog 6 (SMAD6)

Product Code	CSB-BP021792HU
Abbreviation	Recombinant Human SMAD6 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.	O43541
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MFRSKRSGLVRRLLWRSRVVPDREEGGSGGGGGGDEEDGSLGSRAEPAPRAR EGGGCGRSEVRPVAPRRPRDAVGQRGAQGAGRRRRAGGPPRPMSEPGAG AGSSLLDVAEPGGPGWLPESDCETVTCCLFSERDAAGAPRDASDPLAGAALE PAGGGRSREARSRLLLLEQELKTVTYSLKRLKERSLDTLLEAVESRGGVPGG CVLVPRADLRLGGQPAPPQLLLGRLFRWPDQLHAVELKPLCGCHSFAAAADG PTVCCNPYHFSRLCGPESPPPPYSRLSPRDEYKPLDLSDSLSTYSYTETETATNSLI TAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAVYDQAVSIFYDLPQ GSGFCLGQLNLEQRSESVRRTRSKIGFGILLSKEPDGVWAYNRGEHPIFVNSP TLDAPGGRALVVRKVPPGYSIKVFDFERSGLQHAPEPDAADGPYDPNSVRISF AKGWGPCYSRQFITSCPCWLEILLNNPR
Research Area	Epigenetics and Nuclear Signaling
Source	Baculovirus
Target Names	SMAD6
Protein Names	Recommended name: Mothers against decapentaplegic homolog 6 Short name= MAD homolog 6 Short name= Mothers against DPP homolog 6 Alternative name(s): SMAD family member 6 Short name= SMAD 6 Short name= Smad6 Short na
Expression Region	1-496aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	57.4
Protein Length	Full Length
Image	



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

Description

The plasmid vector incorporates the gene encoding the Human SMAD6 protein (1-496aa), generating recombinant plasmid, which is then introduced into baculovirus cells. Selection of positive baculovirus cells is based on their capacity to withstand a particular antibiotic. Subsequently, the baculovirus cells containing the recombinant plasmid are cultivated under conditions that facilitate the expression of the Human SMAD6 gene. The protein carries a N-terminal 10xHis tag and C-terminal Myc tag. Following expression, affinity purification is employed to isolate and purify the recombinant Human SMAD6 protein from the cell lysate. Denaturing SDS-PAGE is used to resolve the resulting recombinant protein, enabling an estimation of its purity, exceeding 85%.

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.