## 32-4836: Recombinant Human Split Hand/Foot Malformation Type 1

Alternative SHFM1,Split Hand/Foot Malformation (Ectrodactyly) Type 1,DSS1,SHFD1,Deleted In Split Hand/Split Foot Name : Protein 1,Split Hand/Foot Deleted Protein 1,Split Hand/Foot Malformation Type 1 Protein,Deleted In SplitHand/Foot 1,26S Proteasome Complex S

## Description

Source : Escherichia Coli. SHFM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 93 amino acids (1-70 a.a) and having a molecular mass of 10.7 kDa (Molecular size on SDS-PAGE will appear higher).SHFM1 is fused to a 23 amino acid His-tag at N -terminus \& purified by proprietary chromatographic techniques. 26 S proteasome complex subunit DSS1 (SHFM1) has been suggested as a candidate gene for the autosomal dominant form of the heterogeneous limb developmental disorder split hand/split foot malformation type 1 . SHFM1 is a subunit of the 26 S proteasome which plays a part in ubiquitin-dependent proteolysis. SHFM1 binds and stabilizes BRCA2 and is therefore involved in the control of R-loop-associated DNA damage and thus transcription-associated genomic instability. Furthermore, SHFM1 may have a role in the completion of the cell cycle. SHFM1 is a component of the TREX-2 complex (transcription and export complex 2), comprised of at least ENY2, GANP, PCID2, DSS1, and either centrin CETN2 or CETN3.

## Product Info

## Amount: $\quad 10 \mu \mathrm{~g}$

Purification: Greater than $85.0 \%$ as determined by SDS-PAGE.
Content : SHFM1 protein solution ( $1 \mathrm{mg} / \mathrm{ml}$ ) containing 20 mM Tris- HCl buffer ( $\mathrm{pH8} 8$ ) , 10\% glycerol and 0.1 M NaCl .

Store at $4^{\circ} \mathrm{C}$ if entire vial will be used within $2-4$ weeks. Store, frozen at $-20^{\circ} \mathrm{C}$ for longer periods of

## Storage condition :

 time. For long term storage it is recommended to add a carrier protein ( $0.1 \%$ HSA or BSA). Avoid multiple freeze-thaw cycles.Amino Acid: MGSSHHHHHH SSGLVPRGSH MGSMSEKKQP VDLGLLEEDD EFEEFPAEDW AGLDEDEDAH VWEDNWDDDN VEDDFSNQLR AELEKHGYKM ETS.


