

Recombinant human SHFM1, His-tagged

Cat. No. SHFM1-2440H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SHFM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	SHFM1, as known as 26S proteasome complex subunit DSS1, has been proposed to be a candidate gene for the autosomal dominant form of the heterogeneous limb developmental disorder split hand/split foot malformation type 1. In addition, it has been shown to directly interact with BRCA2. It also may play a role in the completion of the cell cycle.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl
Molecular Mass	10.7kDa (93aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEKKQP VDLGLLEEDD EFEEFPAEDW AGLDEDEDAH VWEDNWDDDN VEDDFSNQLR AELEKHGYKMETS
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	SHFM1 split hand/foot malformation (ectrodactyly) type 1 [Homo sapiens]
Official Symbol	SHFM1
Synonyms	SHFM1; split hand/foot malformation (ectrodactyly) type 1; SHFD1; 26S proteasome complex subunit DSS1; deleted in split hand/foot 1; DSS1; ECD; SEM1; Shfdg1; SHSF1; split hand/foot deleted protein 1; deleted in split-hand/split-foot 1; deleted in split hand/split foot protein 1; split hand/foot malformation type 1 protein;
Gene ID	7979
mRNA Refseq	NM_006304
Protein Refseq	NP_006295
UniProt ID	P60896
Chromosome Location	7q21.3
Pathway	Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem; Proteasome, organism-specific biosystem; Proteasome, conserved biosystem; Proteasome, 19S regulatory particle (PA700), organism-specific biosystem;

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Function	peptidase activity; protein binding;
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