9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SHFM1 Human

Split Hand/Foot Malformation Type 1 Human Recombinant
RCP2091

Product Overview

Name	SHFM1 Human
Description	
Split Hand/Foot Malformation Type 1 Human Recombinant	
Accession (Primary)	P60896
Synonyms	
SHFM1, Split Hand/Foot Malformation (Ectrodactyly) Type 1, DSS1, SHFD1, Deleted In Split Hand/Split Foot Protein 1, Split Hand/Foot Deleted Protein 1, Split Hand/Foot Malformation Type 1 Protein, Deleted In Split-Hand/Foot 1, 26S Proteasome Complex Subunit DSS1, ECD, SEM1, SHSF1, Shfdg1, Deleted In Split-Hand/Split-Foot 1, SHFDG1.	
Introduction	
26S 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 26S 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
SHFM1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGS MSEKKQP VDLGLLEEDD EFEEFPAEDW AGLDEDEDAH VWEDNWDDDN VEDDFSNQLR AELEKHGYKM ETS.

Precautions

SHFM1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P60896)