

Recombinant Full Length Human DSE Protein, GST-tagged

Cat. No. DSE-4253HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DSE full-length ORF (NP_037484.1, 1 a.a. - 958 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	958 amino acids
Description	The protein encoded by this gene is a tumor-rejection antigen. It is localized to the endoplasmic reticulum and functions to convert D-glucuronic acid to L-iduronic acid during the biosynthesis of dermatan sulfate. This antigen possesses tumor epitopes capable of inducing HLA-A24-restricted and tumor-specific cytotoxic T lymphocytes in cancer patients and may be useful for specific immunotherapy. Mutations in this gene cause inmusculocontractural Ehlers-Danlos syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 9, and a paralogous gene exists on chromosome 18. [provided by RefSeq, Apr 2016]
Molecular Mass	136.2 kDa
AA Sequence	MRTHTRGAPSVFFIYLLCFVSAYITDENPEVMIPFTNANYDSHPMLYFSRAEVAELQL RAASSHEHIAARL TEAVHTMLSSPLEYLPWPDPKDYSARWNEIFGNNLGALAMFCVL YPENIEARDMAKDYMERMAAQPSWLVKDAPWDEVPLAHSLVGFATAYDFLYNYLS KTQQEKFLEVIANASGYMYETSYRRGWGFQYLHNHQPNTNCMALLTGSLVLMNQGY

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LQEAYLWTKQVLTIMEKSLVLLREVTDGSLYEGVAYGSYTTRSLFQYMFLVQRHFNI
 NHFGHPWLKQHFAFMRTILPGFQRTVAIADSNYNWFYGPESQLVFLDKFVMRNGS
 GNWLADQIRNRVVEGPGTPSKGQRWCTLHTEFLWYDGSLSVPPPDFGTPTLHY
 FEDWGVVTYGSALPAEINRSFLSFKSGKLGGRAIYDIVHRNKYKDWIKGWRNFNAG
 HEHPDQNSFTFAPNGVPFITEALYGPKYTFNNVLMFSPAVSKSCFSPWVGQVTE
 CSSKWSKYKHDLAASCQGRVVAEEKNGVVFIRGEGVGAYNPQLNLKNVQRNLILL
 HPQLLLLVDQIHLGEESPLETAASFFHNVDVPFEETVVDGVHGAFIRQRDGLYKMYW
 MDDTGYSEKATFASVTYPRGYNGTNYVNVMTMLRSPITRAAYLFIGPSIDVQSFT
 VHGDSSQLDVFIATSKHAYATYLWTGEATGQSAFAQVIADRHKILFDRNSAIKSSIVP
 EVKDYAAIVEQNLQHFKPVFQLLEKQILSRVRNTASFRKTAERLLRFSDKRQTEEAID
 RIFAISQQQQQSKSKKNRRAGKRYKFVDAVPDIFAQIEVNEKKIRQKAQILAQKELPI
 DEDEEMKDLLDFADVTEYKHKNGGLIKGRFGQARMVTTTHSRAPSLASYSYTRLFLIL
 NIAIFFVMLAMQLTYFQRAQSLHGQRCLYAVLLIDSCILLWLYSSCSQSQC

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DSE dermatan sulfate epimerase [Homo sapiens]

Official Symbol

DSE

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Synonyms	DSE; dermatan sulfate epimerase; SART2, squamous cell carcinoma antigen recognized by T cells 2; dermatan-sulfate epimerase; DSEPI; DS epimerase; chondroitin-glucuronate 5-epimerase; squamous cell carcinoma antigen recognized by T cells 2; squamous cell carcinoma antigen recognized by T-cells 2; DSEP; SART2; SART-2;
Gene ID	29940
mRNA Refseq	NM_001080976
Protein Refseq	NP_001074445
MIM	605942
UniProt ID	Q9UL01

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