

Recombinant Human DSE Protein, GST-tagged

Cat. No. DSE-2888H **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	Wheat Germ
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 LQEAYLWTKQVLTIMEKSLVLLREVTDGSLYEGVAYGSYTTTRSLFQYMFLVQRHFNI

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NHFGHPWLKQHFAFMYRTILPGFQRTVAIADSNYNWFYGPESQLVFLDKFVMRNGS
 GNWLADQIRRNRRVVEGPGTPSKGQRWCTLHTEFLWYDGSLSKSVPPPDFGTPTLHY
 FEDWGVVTYGSALPAEINRSFLSFKSGKLGGRAIYDIVHRNKYKDWIKGWRNFNAG
 HEHPDQNSFTFAPNGVVPFITEALYGPKYTFFNNVLMFSPAVSKSCFSPWVGQVTE
 CSSKWSKYKHDLAASCQGRVVAEEKNGVVFIERGEVGAYNPQLNLKNVQRNLILL
 HPQLLLLVDQIHLGEESPLETAASFFHNVDVPFEETVVDGVHGAFIRQRDGLYKMYW
 MDDTGYSEKATFASVTYPRGYPYNGTNYVNVMTMHLRSPITRAAYLFIGPSIDVQSFT
 VHGDSSQLDVFIAATSKHAYATYLTWTGEATGQSAFAQVIADRHKILFDRNSAIKSSIVP
 EVKDYAAIVEQNLQHFKPVFQLLEKQILSRVRNTASFRKTAERLLRFSDKRQTEEAID
 RIFAISQQQQQSKSKKNRRAGKRYKFVDAVPDIFAQIEVNEKKIRQKAQILAQKELPI
 DEDEEMKDLLDFADVTEKHKNGLIKGRFGQARMVTTTHSRAPSLASASYTRLFLIL
 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

Synonyms

DSE; dermatan sulfate epimerase; SART2, squamous cell carcinoma antigen

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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](#)

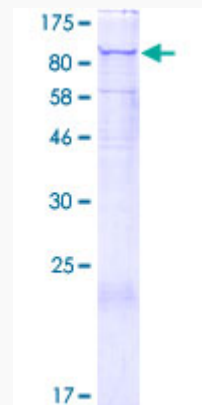
mRNA Refseq [NM_001080976](#)

Protein Refseq [NP_001074445](#)

MIM [605942](#)

UniProt ID [Q9UL01](#)

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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