

## Recombinant Human DSE Protein, GST-tagged

**Cat. No.** DSE-2888H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human DSE full-length ORF ( NP_037484.1, 1 a.a. - 958 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 136.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MRTHTRGAPSVFFIYLLCFVSAYITDENPEVMIPFTNANYDSHPMLYFSRAEVAELQL<br>RAASSHEHIAARL TEAVHTMLSSPLEYLPWPDPKDYSARWNEIFGNNLGALAMFCVL<br>YPENIEARDMAKDYMERMAAQPSWLVKDAPWDEVPLAHSLVGFATAYDFLYNYLS<br>KTQQEKFLEVIANASGYMYETSYRRGWGFQYLHNNHQPTNCMALLTGSLVLMNQGY<br>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

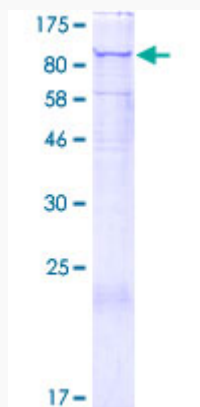
**mRNA Refseq** NM\_001080976

**Protein Refseq** NP\_001074445

**MIM** 605942

**UniProt ID** Q9UL01

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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