

# Recombinant Human DSE Protein, His-tagged

**Cat. No.** DSE-1387H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Human DSE Protein (Tyr23-His284) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Tyr23-His284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 34.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | DSE dermatan sulfate epimerase [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | DSE                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | 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;                |
| <b>Gene ID</b>          | 29940                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_001080976                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_001074445                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 605942                                                                                                                                                                                                                                                                                                                                       |

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UniProt ID

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