

# Recombinant Human DSE cell lysate

**Cat. No.** DSE-511HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>    | The protein encoded by this gene is a tumor-rejection antigen. 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. This gene product is localized to the endoplasmic reticulum. Two transcript variants encoding the same protein have been found for this gene. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DSE dermatan sulfate epimerase [ Homo sapiens ]                                                                                                                                                                                   |
| <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 |

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 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                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q9UL01                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 6q22                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; dermatan sulfate biosynthesis, organism-specific biosystem; dermatan sulfate biosynthesis, conserved biosystem; dermatan sulfate biosynthesis (late stages), organism-specific biosystem; dermatan sulfate biosynthesis (late stages), conserved biosystem; |
| <b>Function</b>            | chondroitin-glucuronate 5-epimerase activity; isomerase activity;                                                                                                                                                                                                                                                                                                                                                         |