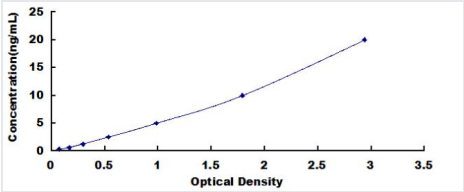
Dermatan Sulfate Epimerase (DSE) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Dermatan Sulfate Epimerase (DSE), ELISA Kit
Full Product Name	Human Dermatan Sulfate Epimerase (DSE) ELISA Kit
Product Gene Name	DSE elisa kit
Product Synonym Names	DSEPI; SART2; Squamous Cell Carcinoma Antigen Recognized By T Cells 2; Chondroitin-glucuronate 5-epimerase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.114ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	109,773 Da
OMIM	605942
3D Structure	ModBase 3D Structure for Q9UL01
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DSE elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DSE. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DSE. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DSE, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of DSE in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DSE elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DSE purchase	MBS458933 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dermatan Sulfate Epimerase (DSE) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DSE. The ELISA analytical biochemical technique of the MBS458933 kit is based on DSE antibody-DSE antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DSE antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DSE. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DSE elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSE. It may not necessarily be applicable to this product.

NCBI GI #	124494231
NCBI GeneID	29940
NCBI Accession #	NP_001074445.1
UniProt Primary Accession #	Q9UL01
UniProt Secondary Accession #	Q5R3K6
UniProt Related Accession #	Q9UL01
GenBank Nucleotide #	NM_001080976.2
NCBI Official Full Name	dermatan-sulfate epimerase isoform a
NCBI Official Synonym Full Names	dermatan sulfate epimerase
NCBI Official Symbol	DSE
NCBI Official Synonym Symbols	DSEP; DSEPI; SART2; EDSMC2; SART-2; DS-epi1
UniProt Protein Name	Dermatan-sulfate epimerase
UniProt Synonym Protein Names	Chondroitin-glucuronate 5-epimerase; Squamous cell carcinoma antigen recognized by T-cells 2; SART-2
Protein Family	Dermatan-sulfate epimerase
UniProt Gene Name	DSE
UniProt Synonym Gene Names	SART2; DS epimerase; SART-2
NCBI Protein Information	dermatan-sulfate epimerase
NCBI Summary for DSE	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]
UniProt Comments for DSE	Converts D-glucuronic acid to L-iduronic acid (IdoUA) residues.
Research Articles on DSE	**1.** study identified a homozygous DSE missense mutation (c.803C>T, p.S268L) in a male child with musculocontractural type of Ehlers-Danlos syndrome; data indicate mutation affects the epimerase activity, resulting in reduced dermatan sulfate (DS) biosynthesis and an increased synthesis or an accumulation or reduced conversion of chondroitin sulfate
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