

# Recombinant Human CSE1L Over-expression Cell Lysate

**Cat. No.** CSE1L-9523HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** HEK293

### Description

Proteins that carry a nuclear localization signal (NLS) are transported into the nucleus by the importin-alpha/beta heterodimer. Importin-alpha binds the NLS, while importin-beta mediates translocation through the nuclear pore complex. After translocation, RanGTP binds importin-beta and displaces importin-alpha. Importin-alpha must then be returned to the cytoplasm, leaving the NLS protein behind. The protein encoded by this gene binds strongly to NLS-free importin-alpha, and this binding is released in the cytoplasm by the combined action of RANBP1 and RANGAP1. In addition, the encoded protein may play a role both in apoptosis and in cell proliferation. Alternatively spliced transcript variants have been found for this gene.

### Form

25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4

### Molecular Mass

110.2 kDa

### Usage

1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer  
 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer  
 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)

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**Storage**

Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles.

Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

**GENE INFORMATION**

**Gene Name** CSE1L CSE1 chromosome segregation 1-like (yeast) [ Homo sapiens ]

**Official Symbol** CSE1L

**Synonyms** CSE1L; CSE1 chromosome segregation 1-like (yeast); chromosome segregation 1 (yeast homolog) like; exportin-2; CAS; CSE1; XPO2; exp2; importin-alpha re-exporter; chromosome segregation 1-like protein; cellular apoptosis susceptibility protein; MGC117283; MGC130036; MGC130037;

**Gene ID** 1434

**mRNA Refseq** NM\_001316

**Protein Refseq** NP\_001307

**MIM** 601342

**UniProt ID** P55060

**Chromosome Location** 20q13

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|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Direct p53 effectors, organism-specific biosystem; p53 pathway, organism-specific biosystem; |
| <b>Function</b> | importin-alpha export receptor activity; protein binding; protein transporter activity;      |

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