

## Recombinant human SSR1, His-tagged

**Cat. No.** SSR1-2432H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant human SSR1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | The signal sequence receptor (SSR) is a glycosylated endoplasmic reticulum (ER) membrane receptor associated with protein translocation across the ER membrane. The SSR consists of 2 subunits, a 34-kD glycoprotein encoded by this gene and a 22-kD glycoprotein. This gene generates several mRNA species as a result of complex alternative polyadenylation. This gene is unusual in that it utilizes arrays of polyA signal sequences that are mostly non-canonical. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl(pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 23.1kDa (209aa), confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSRRGPRGL LAVAQDLTED EETVEDSIIE<br>DEDDEAEVEE DEPTDLVEDK EEEDVSGEPE ASPSADTTILFVKGEDFPAN<br>NIVKFLVGFT NKGTEDFIVE SLDASFRYPQ DYQFYIQNFT ALPLNTVVPP<br>QRQATFEYSF IPAEPMGGRP FGLVINLNYK DLNGNVFQDA VFNQTVTVIE<br>REDGLDGET                                                                                                                                                                                                                          |

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | >90% by SDS - PAGE                                                                                                                                 |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                           |
| <b>Storage</b>       | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.25 mg/ml (determined by Bradford assay)                                                                                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">SSR1 signal sequence receptor, alpha [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | SSR1                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | SSR1; signal sequence receptor, alpha; translocon-associated protein subunit alpha; translocon associated protein alpha; TRAPA; SSR-alpha; TRAP alpha; TRAP-alpha; SSR alpha subunit; signal sequence receptor subunit alpha; translocon-associated protein alpha subunit; FLJ14232; FLJ22100; FLJ23034; FLJ78242; FLJ93042; DKFZp781N23103; |
| <b>Gene ID</b>         | <a href="#">6745</a>                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | <a href="#">NM_003144</a>                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | <a href="#">NP_003135</a>                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>             | <a href="#">600868</a>                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | <a href="#">P43307</a>                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 6p24.3                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Activation of Chaperone Genes by XBP1(S), organism-specific biosystem; Activation of Chaperones by IRE1alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem; |

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