



# Recombinant Human Autoimmune regulator (AIRE)

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| <b>Product Code</b>      | CSB-EP001502HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | O43918  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MATDAALRRL LRLHRTEIAV AVDSAFPLLH ALADHDVVPE DKFQETLHLK<br>EKEGCPQAFH ALLSWLLTQD STAILDFWRV LFKDYNLERY GRLQPILDSF<br>PKDVDLSQPR KGRKPPAVPK ALVPPRLPT KRKASEEARA AAPAALTPRG<br>TASPGSQLKA KPPKKPESSA EQQRLPLGNG IQTMSASVQR AVAMSSGDVP<br>GARGAVEGIL IQQVFESGGS KKCIQVGGEF YTPSKFEDSG SGKNKARSSS<br>GPKPLVRAKG AQGAAPGGGE ARLGQQGSVP APLALPSDPQ<br>LHQKNEDECA VCRDGGELIC CDGCPRAFHL ACLSPPLREI PSGTWRCS<br>LQATVQEVQP RAEPRPQEP PVETPLPPGL RSAGEEVRGP PGEPLAGMDT<br>TLVYKHLPAF PSAAPLPGLD SSALHPLLCV GPEGQQNLAP GARGVCGDG<br>TDVLRCTHCA AAFHWRCHFP AGTSRPGTGL RCRSCSGDVT PAPVEGLVAP<br>SPARLAPGPA KDDTASHEPA LHRDDLESLL SEHTFDGILQ WAIQSMARPA<br>APFPS |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | AIRE  |
| <b>Protein Names</b>     | Recommended name: Autoimmune regulator Alternative name(s): Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy protein Short name= APECED protein   |
| <b>Expression Region</b> | 1-545   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full length protein   |
| <b>Target Details</b>    | This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CBP. At least three splice variant mRNAs products have been described including one which results in a premature stop codon and a transcript predicted to be a candidate for nuclear-mediated decay (NMD). Defects in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED).   |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a  |



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.