

## Recombinant Human AIRE, His-tagged

Cat. No. AIRE-3784H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Autoimmune regulator (AIRE)
<b>Species</b>	Human
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	545
<b>Description</b>	<p>This gene encodes a transcriptional regulator that forms nuclear bodies and interacts with the transcriptional coactivator CREB binding protein. The encoded protein plays an important role in immunity by regulating the expression of autoantigens and negative selection of autoreactive T-cells in the thymus. Mutations in this gene cause the rare autosomal-recessive systemic autoimmune disease termed autoimmune polyendocrinopathy with candidiasis and ectodermal dystrophy (APECED).</p>
<b>Form</b>	<p>This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.</p>
<b>Purity</b>	>90%
<b>Notes</b>	<p>Small volumes of AIRE recombinant protein 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.</p>

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<b>Storage</b>	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
<b>Storage Buffer</b>	PBS pH 7.4, 50% glycerol
<b>Warning</b>	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AIRE autoimmune regulator [ Homo sapiens ]</a>
<b>Official Symbol</b>	AIRE
<b>Synonyms</b>	AIRE; autoimmune regulator; APECED, autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy); APS1; autoimmune polyendocrinopathy candidiasis ectodermal dystrophy; PGA1; autoimmune polyendocrinopathy candidiasis ectodermal dystrophy protein; APSI; AIRE1; APECED;
<b>Gene ID</b>	<a href="#">326</a>
<b>mRNA Refseq</b>	<a href="#">NM_000383</a>
<b>Protein Refseq</b>	<a href="#">NP_000374</a>
<b>MIM</b>	<a href="#">607358</a>
<b>UniProt ID</b>	<a href="#">O43918</a>
<b>Chromosome Location</b>	21q22.3

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**Pathway**

Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem; Ubiquitin mediated proteolysis, conserved biosystem;

**Function**

DNA binding; chromatin binding; histone binding; identical protein binding; metal ion binding; protein binding; transcription regulatory region DNA binding; translation regulator activity; zinc ion binding;

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