

## Recombinant Human ANO1 Protein, His-tagged

**Cat. No.** ANO1-156H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ANO1 Protein (Met1-Ala333) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Met1-Ala333                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Enables calcium activated cation channel activity; intracellular calcium activated chloride channel activity; and iodide transmembrane transporter activity. Involved in cation transport; inorganic anion transport; and positive regulation of insulin secretion involved in cellular response to glucose stimulus. Located in apical plasma membrane and nucleoplasm. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 42.2 kDa<br>Accurate Molecular Mass: 44 kDa                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 80%                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                               |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by                                                                                                                                                                                                                                                                                     |

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**Storage**

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

**Storage Buffer**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Reconstitution**

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name**

[ANO1 anoctamin 1, calcium activated chloride channel \[ Homo sapiens \(human\) \]](#)

**Official Symbol**

[ANO1](#)

**Synonyms**

ANO1; anoctamin 1, calcium activated chloride channel; oral cancer overexpressed 2, ORAOV2, TMEM16A, transmembrane protein 16A; anoctamin-1; DOG1; FLJ10261; TAOS2; oral cancer overexpressed 2; tumor-amplified and overexpressed sequence 2; discovered on gastrointestinal stromal tumors protein 1; transmembrane protein 16A (eight membrane-spanning domains); ORAOV2; TMEM16A

**Gene ID**

[55107](#)

**mRNA Refseq**

[NM\\_018043](#)

**Protein Refseq**

[NP\\_060513](#)

**MIM**

[610108](#)

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UniProt ID

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