

## Recombinant Human ENSA, GST-tagged

Cat. No. ENSA-12464H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human ENSA protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 1-121a.a.

**Description** The protein encoded by this gene belongs to a highly conserved cAMP-regulated phosphoprotein (ARPP) family. This protein was identified as an endogenous ligand for the sulfonylurea receptor, ABCC8/SUR1. ABCC8 is the regulatory subunit of the ATP-sensitive potassium (KATP) channel, which is located on the plasma membrane of pancreatic beta cells and plays a key role in the control of insulin release from pancreatic beta cells. This protein is thought to be an endogenous regulator of KATP channels. In vitro studies have demonstrated that this protein modulates insulin secretion through the interaction with KATP channel, and this gene has been proposed as a candidate gene for type 2 diabetes. At least eight alternatively spliced transcript variants encoding distinct isoforms have been observed.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	ENSA endosulfine alpha [ Homo sapiens ]
<b>Official Symbol</b>	ENSA
<b>Synonyms</b>	ENSA; endosulfine alpha; alpha-endosulfine; ARPP 19e; MGC4319; MGC8394; MGC78563; ARPP-19e;
<b>Gene ID</b>	2029
<b>mRNA Refseq</b>	NM_004436
<b>Protein Refseq</b>	NP_004427
<b>MIM</b>	603061
<b>UniProt ID</b>	O43768
<b>Chromosome Location</b>	1q21.3
<b>Function</b>	ion channel inhibitor activity; phosphatase inhibitor activity; protein phosphatase 2A binding; protein phosphatase inhibitor activity; protein phosphatase type 2A regulator activity; receptor binding;

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