

Recombinant Human ITPR2 Protein, His-tagged

Cat. No. ITPR2-2347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITPR2 Protein (Met1-Val287) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Val287
Description	The protein encoded by this gene belongs to the inositol 1,4,5-triphosphate receptor family, whose members are second messenger intracellular calcium release channels. These proteins mediate a rise in cytoplasmic calcium in response to receptor activated production of inositol triphosphate. Inositol triphosphate receptor-mediated signaling is involved in many processes including cell migration, cell division, smooth muscle contraction, and neuronal signaling. This protein is a type 2 receptor that consists of a cytoplasmic amino-terminus that binds inositol triphosphate, six membrane-spanning helices that contribute to the ion pore, and a short cytoplasmic carboxy-terminus. A mutation in this gene has been associated with anhidrosis, suggesting that intracellular calcium release mediated by this protein is required for eccrine sweat production.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.2 kDa Accurate Molecular Mass: 38 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by 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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	ITPR2 inositol 1,4,5-trisphosphate receptor, type 2 [Homo sapiens (human)]
Official Symbol	ITPR2
Synonyms	ITPR2; inositol 1,4,5-trisphosphate receptor, type 2; inositol 1,4,5 triphosphate receptor, type 2; inositol 1,4,5-trisphosphate receptor type 2; IP3R2; IP3R 2; insP3R2; IP3 receptor; type 2 InsP3 receptor; inositol 1,4,5-triphosphate receptor, type 2; type 2 inositol 1,4,5-trisphosphate receptor;
Gene ID	3709

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mRNA Refseq	NM_002223
Protein Refseq	NP_002214
MIM	600144
UniProt ID	Q14571

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