

AMHRII Protein, Human, Recombinant

General Information

Synonyms:	MRII;AMHR2;AMH type II receptor;MIS type II receptor;AMHR;AMHRII;C14;MISRII;MISR2
Protein Construction:	Pro18-Ser144
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q16671-1
Molecular Weight:	14.3 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human AMHRII at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-AMHRII Antibody, hFc Tag with the EC50 of 98.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The aim of the current study was to explore whether anti-Müllerian hormone receptor II (AMHRII) genetic variants influence the hormonal profile and the ovarian response to standard gonadotropin stimulation of women undergoing medically assisted reproduction. Three hundred in vitro fertilization or intracytoplasmic sperm injection patients constituted the study population, while 300 women with at least one spontaneous pregnancy participated as controls.

Reference

Lazaros L, et al. The ovarian response to standard gonadotropin stimulation is influenced by AMHRII genotypes. Gynecol Endocrinol. 2016 Aug;32(8):641-645. doi: 10.3109/09513590.2016.1149810. Epub 2016 Mar 2. PMID: 26933946.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481