

## Active Recombinant Human Anti-Mullerian Hormone

**Cat. No.** AMH-383H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AMH protein was expressed in E. coli. Ala453-Arg560.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	453-560 a.a.
<b>Description</b>	AMH is a tissue-specific TGF- $\beta$ superfamily growth factor. Its expression is restricted to the Sertoli cells of fetal and postnatal testis, and to the granulosa cells of postnatal ovary. The human MIS gene encodes a 553 amino acid residue (aa) prepropeptide containing a signal sequence (1-24), a proregion (25-455), and the carboxyl terminal bioactive protein (44-6553). MIS is synthesized and secreted as a disulfide-linked homodimeric pro-protein. Proteolytic cleavage is required to generate the N-terminal pro-region and the C-terminal bioactive protein, which remain associated in a noncovalent complex.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Ala453
<b>Molecular Weight</b>	11.7 kDa (monomer)
<b>Activity</b>	Measured by its ability to inhibit growth of OVCAR-3 human ovarian carcinoma cells.

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Measured by its binding ability in a functional ELISA. Immobilized rhMIS at 3 µg/MI (100µL/well) will bind rrMIS RII/Fc Chimera with a linear range of 1.6-100 ng/mL.

**Endotoxin Level** <1.0EU per 1µg of the protein by the LAL method.

**Purity** >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Reconstitution** Reconstitute at 10µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

**Gene Name** AMH anti-Mullerian hormone [ Homosapiens ]

**Official Symbol** AMH

**Synonyms** AMH; anti-Mullerian hormone; MIF; MIS; muellerian-inhibiting factor; Mullerian inhibiting factor; Mullerian inhibiting substance; muellerian-inhibiting substance

**Gene ID** 268

**mRNA Refseq** NM\_000479

**Protein Refseq** NP\_000470

**MIM** 600957

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<b>UniProt ID</b>	P03971
<b>Chromosome Location</b>	19p13.3
<b>Pathway</b>	Cytokine-cytokine receptor interaction; ALK2signaling events; TGF-beta signaling pathway
<b>Function</b>	growth factor activity; hormone activity; receptorbinding; transforming growth factor beta receptor binding

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