

## 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/ML (100 µL/well) will bind rrMIS RII/Fc Chimera with a linear range of 1.6-100 ng/mL.                                                                                               |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                   |
| <b>Purity</b>          | >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                          |
| <b>Reconstitution</b>  | Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.                                                                                                                                                                      |
| <b>Storage</b>         | 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

|                        |                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | AMH anti-Mullerian hormone [ Homosapiens ]                                                                                                                        |
| <b>Official Symbol</b> | AMH                                                                                                                                                               |
| <b>Synonyms</b>        | AMH; anti-Mullerian hormone; MIF; MIS; muellerian-inhibiting factor; Mullerian inhibiting factor; Mullerian inhibiting substance; muellerian-inhibiting substance |
| <b>Gene ID</b>         | 268                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_000479                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_000470                                                                                                                                                         |
| <b>MIM</b>             | 600957                                                                                                                                                            |

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

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