

Active Recombinant Human AMH protein, His-tagged

Cat. No. AMH-269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human AMH protein(P03971)(453~560 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	453-560 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Anti-Müllerian hormone (AMH), also named Müllerian inhibiting substance (MIS) belongs to a tissue-specific TGF-beta superfamily growth factor. It can be expressed by male sertoli cells and postnatal testis, and ovarian granulosa cells of females postpartum. AMH expression is critical to sex differentiation at a specific time during fetal development, it appears to be tightly regulated by SF1, GATA factors, DAX1 and FSH. AMH signals through a characteristic receptor consisting of a type I and a type II receptor serine/threonine kinase. Especially the type II receptor is unique and specific receptor for AMH. Besides, Mothers Against Decapentaplegic Homolog 9 (Smad9) has been identified as an interactor of AMH, thus a binding ELISA assay was conducted to detect the interaction of recombinant human AMH and recombinant human (Smad9) Briefly, AMH were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to Smad9-coated microtiter wells

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and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-AMH pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of of AMH and Smad9 was shown, and this effect was in a dose dependent manner.

Molecular Mass 12.8kDa

Purity > 95% as determined by SDS-PAGE.

Storage Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name [AMH anti-Mullerian hormone \[Homo sapiens \]](#)

Official Symbol [AMH](#)

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

Gene ID [268](#)

mRNA Refseq [NM_000479](#)

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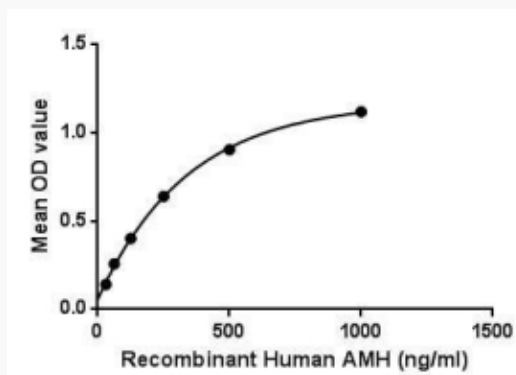
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Protein Refseq NP_000470

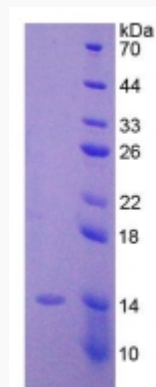
MIM 600957

UniProt ID P03971

Activity



SDS-PAGE



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