

Muellerian-inhibiting factor/AMH Protein, Mouse

Cat. No.:	HY-P72077
Synonyms:	Amh; Muellerian-inhibiting factor; Anti-Muellerian hormone; AMH; Muellerian-inhibiting substance; MIS
Species:	Mouse
Source:	E. coli
Accession:	P27106 (D450-C552)
Gene ID:	11705
Molecular Weight:	Approximately 14 kDa. The reducing (R) protein migrates as 14 kDa in SDS-PAGE maybe due to molecular structure of protein.

PROPERTIES

AA Sequence	D K G Q D G P C A L R E L S V D L R A E R S V L I P E T Y Q A N N C Q G A C R W P Q S D R N P R Y G N H V V L L L K M Q A R G A A L G R L P C C V P T A Y A G K L L I S L S E E R I S A D H V P N M V A T E C
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Müllerian-inhibiting factor (AMH) protein plays a pivotal role in various reproductive processes. During male fetal sexual differentiation, it contributes significantly to Muellerian duct regression. In the adult, AMH assumes a role in Leydig cell differentiation and function. Conversely, in females, AMH acts as a negative regulator, impeding the primordial to primary follicle transition and reducing the FSH sensitivity of growing follicles. AMH exerts its effects by binding to its sole type II receptor, AMHR2, which recruits type I receptors ACVR1 and BMPR1A, subsequently activating the Smad pathway. Structurally, AMH exists as a homodimer, with disulfide linkages contributing to its stability. The diverse functions of AMH underscore its crucial involvement in orchestrating key events in both male and female reproductive development and</p>
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maintenance.

Caution: Product has not been fully validated for medical applications. For research use only.

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