

Muellerian-inhibiting factor/AMH Protein, Mouse (P.pastoris, His)

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| Cat. No.: | HY-P71712 |
| Synonyms: | Amh; Muellierian-inhibiting factor; Anti-Muellierian hormone; AMH; Muellierian-inhibiting substance; MIS |
| Species: | Mouse |
| Source: | P. pastoris |
| Accession: | P27106 (450D-552C) |
| Gene ID: | 11705 |
| Molecular Weight: | Approximately 24 kDa |

PROPERTIES

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| 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 after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0. |
| 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

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| 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 Muellierian 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 maintenance.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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