

Recombinant Rat AMH Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52372

Size: 10ug, 100ug

Protein Name: Anti-Muellerian hormone (AMH) (Muellerian-inhibiting factor) (Muellerian-inhibiting substance) (MIS)

Synonym: Amh

UniProt ID: P49000

UniProt Link: www.uniprot.org/uniprotkb/P49000/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 553 AA

Molecular Weight: 59 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MQGPHLSLLLLLATMGAVLQADTVEELTNTRGLIFLEDGVWPPSSPPEPLCLVAVRGEGDTSKASL
TVVGGLHSYEHAFLEAVQESRWGPQDLATFGVCSTDSQTTLPALQRLGAWLGETGEQQLLVHLAE
VIWEPQLLLKFQEPGGASRWEQALLVLYPGPGPQVTVTGAGLQGTQSLCPTDRTRYLVLT VHFP
AGAWSGSGLALTQPSKEGATLTIAQLQAFLFGSDSRCFTRMTPTLVLLPPTGPTPQPAHGQLDTPV
FPQPGLSLEPEDLPHSADPFLETLTRLVRLRGPLTRASNTRLALDPGALASFPQGLVNLSDPVALG
RLLDGEEPLLLLLSPAAATVGEPMRLHSPTSAPWAAGLARRVAVELQAAASELRDLPGLPPTAPPLL
SRLALCPNDSRSAGDPLRALLLKALQGLRAEWREGREGGRAGRSKGTGTDGLCALRELSVDLRA
ERSVLIPETYQANNCQGACAWPQSDRNPRYGNHVLLLLKMQARGAALGRLPCCVPTAYTGKLLISL
SEEHISAHHVPMNVATECGCR

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Anti-Muellerian hormone (AMH) (Muellerian-inhibiting factor) (Muellerian-inhibiting substance) (MIS) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: The anti-Muellerian hormone (AMH) plays an important role in several reproductive functions (By similarity). Anti-Muellerian hormone binds and activates AMHR2, its specific type-II receptor, that heterodimerizes with type-I receptors (ACVR1 and BMPR1A) to regulate target gene expression through downstream SMAD protein signal transduction (By similarity). Produced and secreted by Sertoli cells of the male fetus, anti-Muellerian hormone induces Muellerian duct regression during male fetal sexual differentiation (By similarity). In female, it is produced by granulosa cells of the preantral and small antral follicles and acts as a negative regulator of the primordial to primary follicle transition and decreases FSH sensitivity of growing follicles (By similarity). Also plays a role in Leydig cell differentiation and function (By similarity).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.