

Synonym

MIS RII,MRII,AMHR2,AMHR,MISR2,AMH type II receptor

Source

Human MIS RII, Fc Tag (MII-H5258) is expressed from human 293 cells (HEK293). It contains AA Pro 18 - Ser 144 (Accession # [Q16671-1](#)).

Predicted N-terminus: Pro 18

Molecular Characterization

MIS RII(Pro 18 - Ser 144) Q16671-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 40.0 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

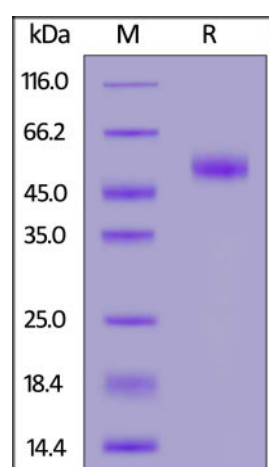
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human MIS RII, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

MIS RII (Mullerian inhibiting substance type II receptor), also known as AMHR2 (anti-Mullerian hormone type II receptor), is a serine/threonine receptor with a single transmembrane domain that belongs to the family of type II receptors of the TGF-beta superfamily. Mutations in MIS RII result in persistent Mullerian duct syndrome (PMDS), persistent Müllerian duct syndrome (PMDS) is a sex-limited disorder in which males develop portions of the female reproductive tract. Anti-Müllerian hormone (AMH) and its receptor (AMHR2) induce the regression of the Müllerian ducts in male embryos, but the mechanism by which the Amhr2 gene is specifically activated is not fully understood.

References

- (1) [Qin C, et al. *Reprod Biomed Online*. 2014. 29\(3\):311-8.](#)
- (2) [Smit MM, et al. *Reprod Domest Anim*. 2018. 53\(2\):371-376.](#)
- (3) [Kimura AP, et al. *Endocrinology*. 2017. 158\(11\):4105-4121.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.