

Synonym

THSD1,TMTSP

Source

Human THSD1, His Tag (TH1-H52H5) is expressed from human 293 cells (HEK293). It contains AA Glu 25 - Ile 361 (Accession # AAH63842).
Predicted N-terminus: Glu 25

Molecular Characterization

THSD1(Glu 25 - Ile 361)
AAH63842

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 39.7 kDa. The protein migrates as 57-70 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.

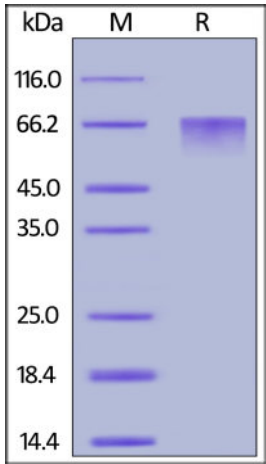
Storage

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

Please avoid repeated freeze-thaw cycles.

- No activity loss was observed 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 THSD1, His 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

Thrombospondin type-1 domain-containing protein 1 (THSD1) is also known as Transmembrane molecule with thrombospondin module (TMTSP), which is a single-pass type I membrane protein and contains a type 1 thrombospondin domain that is found in thrombospondin, a number of proteins involved in the complement pathway, as well as extracellular matrix proteins. In addition, THSD1 is widely expressed on endothelial cells, with highest expression in the lung. THSD1's ligand and function are unknown, but it is postulated that THSD1 may be involved in the regulation of vasculogenesis and/or angiogenesis through its interaction with its specific ligand.

References

(1) [Clark H.F., et al., 2003, Genome Res. 13:2265-2270.](#)
(2) [Bork P.,1993, FEBS Lett. 327 \(2\): 125–30.](#)
(3) [Clark HF., et al., 2003, Genome Res. 13 \(10\): 2265–70.](#)

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