

Product datasheet for TP727781

Thrombospondin 1 (THBS1) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Recombinant Human Thrombospondin-1/THBS1 (C-10His) Species: Human **Expression cDNA Clone** Asn19-Pro1170 or AA Sequence: Tag: C-His **Buffer:** Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4. Recombinant Human Thrombospondin-1 is produced by our Mammalian expression system Note: and the target gene encoding Asn19-Pro1170 is expressed with a 10His tag at the C-terminus. Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Stability: 12 months from date of despatch Locus ID: 7057 **UniProt ID:** P07996 Synonyms: Thrombospondin-1; THBS1; TSP; TSP1 Summary: Thrombospondin-1 (TSP-1) is a 150-180kDa calcium-sensitive protein that is secreted as a disulfide-linked homotrimer. TSP-1 regulates a wide range of cellular functions including their interactions with other cells and with the extracellular matrix (ECM). TSP-1 contains an Nterminal Laminin G-like globular domain, an extended central region with one vWFC domain, 3 TSP type 1domains, 2 EGF-like domains, and 8 TSP type3 domains, and a globular TSP Cterminal domain. Distinct regions of TSP-1 have been associated with binding to particular ECM or cellular molecules. TSP-1 counteracts the angiogenic, hypotensive, and antithrombotic effects of nitric oxide (NO). It binds and neutralizes VEGF, blocks VEGF R2 signaling on vascular endothelial cells(EC), and destabilizes adhesive contacts between EC. TSP-1 also plays an important role in wound repair and tissue fibrosis by binding latent TGFbeta and inducing release of the active cytokine from the latency associated peptide (LAP). **Protein Families:** Druggable Genome



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Thrombospondin 1 (THBS1) Human Recombinant Protein - TP727781

Protein Pathways: Bladder cancer, ECM-receptor interaction, Focal adhesion, p53 signaling pathway, TGF-beta signaling pathway

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US