USAG-1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78765
Synonyms:	Uterine sensitization-associated gene 1 protein
Species:	Human
Source:	HEK293
Accession:	Q6X4U4-1 (F24-S206)
Gene ID:	/
Molecular Weight:	Approximately 55-70 kDa due to the glycosylation.

PROPERTIES

AA Sequence	F K N D A T E I L Y S H V V K P V P A H P S S N S T L N Q A R N G G R H F S N T G L D R N T R V Q V G C R E L R S T K Y I S D G Q C T S I S P L K E L V C A G E C L P L P V L P N W I G G G Y G T K Y W S R R S S Q E W R C V N D K T R T Q R I Q L Q C Q D G S T R T Y K I T V V T A C K C K R Y T R Q H N E S S H N F E S M S P A K P V Q H H R E R K R A S K S S K H S M S
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human USAG1 is coated at 2 μg/mL (100 μL/well), the concentration of rhLRP-6 that produces 50% of the optimal binding response is found to be approximately 0.0323 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Background	USAG-1 protein appears to be implicated in the initiation of endometrial receptivity, potentially contributing to the preparation for implantation and sensitization for the decidual cell reaction. Moreover, it plays a role in modulating signaling pathways by enhancing Wnt signaling and concurrently inhibiting TGF-beta signaling. Notably, USAG-1 acts as a

	direct antagonist to BMP2, BMP4, BMP6, and BMP7 in a dose-dependent manner, suggesting a regulatory function in the BMP signaling pathway. It interacts with high affinity with BMP2, BMP4, BMP6, and BMP7, indicating a direct involvement in the modulation of these signaling molecules.

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