

## Recombinant Mouse USAG1 Protein, Full Length

Cat. No. Sostdc1-01MFL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Mouse USAG1 Protein with an N-terminal Met was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full Length
<b>Description</b>	Predicted to enable BMP binding activity and BMP receptor activity. Acts upstream of or within several processes, including animal organ development; negative regulation of cell fate commitment; and negative regulation of signal transduction. Located in extracellular space. Is expressed in several structures, including alimentary system; genitourinary system; limb; nervous system; and sensory organ. Orthologous to human SOSTDC1 (sclerostin domain containing 1).
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human USAG1 is immobilized at 1 µg/mL (100 µL/well), the concentration of Recombinant Mouse LRP-6 that produces 50% of the optimal binding response is approximately 0.1-0.6 µg/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 21 kDa SDS-PAGE: 21 kDa, reducing conditions
<b>Endotoxin</b>	< 0.10

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	EU/μg of the protein by the LAL method.
<b>Purity</b>	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>N-terminal Sequence Analysis</b>	Met
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in HCl.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 250 μg/mL in 4 mM HCl.
<b>References</b>	<ol style="list-style-type: none"> <li>Laurikkala, J. et al. (2003) Dev. Biol. 264:91.</li> <li>Yanagita, M. et al. (2004) Biochem. Biophys. Res. Commun. 316:490.</li> <li>Lintern, K.B. et al. (2009) J. Biol. Chem. 284:23159.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	Sostdc1 sclerostin domain containing 1 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Sostdc1
<b>Synonyms</b>	Sostdc1; sclerostin domain containing 1; Wise; Sostl; USAG-1; ectodin; 0610006G05Rik; sclerostin domain-containing protein 1; cystine-knot containing

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secreted protein; ectodermal BMP inhibitor; sclerostin-like protein; uterine sensitization-associated gene 1 protein; uterine sensitization-associated protein 1

**Gene ID** 66042

**mRNA Refseq** NM\_025312

**Protein Refseq** NP\_079588

**UniProt ID** Q9CQN4

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