

Recombinant Mouse USAG1 Protein, Full Length

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

SPECIFICATION

Product Overview	Recombinant Full Length Mouse USAG1 Protein with an N-terminal Met was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Full Length
Description	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).
Bio-activity	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.
Molecular Mass	Predicted Molecular Mass: 21 kDa SDS-PAGE: 21 kDa, reducing conditions
Endotoxin	< 0.10

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	EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
N-terminal Sequence Analysis	Met
Storage	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in HCl.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 250 μg/mL in 4 mM HCl.
References	1. Laurikkala, J. et al. (2003) Dev. Biol. 264:91. 2. Yanagita, M. et al. (2004) Biochem. Biophys. Res. Commun. 316:490. 3. Lintern, K.B. et al. (2009) J. Biol. Chem. 284:23159.

GENE INFORMATION

Gene Name	Sostdc1 sclerostin domain containing 1 [Mus musculus (house mouse)]
Official Symbol	Sostdc1
Synonyms	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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