

Active Recombinant Mouse Qsox1 protein, His-tagged

Cat. No. Qsox1-266M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Qsox1(Ser36-Ala550) fused with an N-terminal Met and 6-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	36-550 a.a.
Description	Sulfhydryl Oxidase-1 (QSOX1) is an enzyme that contains thioredoxin and sulfhydryl oxidase domains. It is synthesized with a C-terminal transmembrane segment, but soluble secreted forms can be generated by alternative splicing or proteolytic shedding within the Golgi. Within the region encompassing both enzymatic domains and the central region, mouse QSOX1 shares 79% and 92% aa sequence identity with human and rat QSOX1, respectively. It plays a role in nascent protein folding by mediating disulfide oxidation. This activity is required for Laminin incorporation into the extracellular matrix. QSOX1 is up-regulated in many cancers and supports tumor cell proliferation and invasion.
Predicted N Terminal	Met
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to produce hydrogen peroxide during the oxidation of Dithiothreitol (DTT). The specific activity is >1,200 pmol/min/µg.

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Molecular Mass	Predicted Molecular Mass: 59 kDa SDS-PAGE: 56 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	Qsox1 quiescin Q6 sulfhydryl oxidase 1 [<i>Mus musculus</i>]
Official Symbol	Qsox1
Synonyms	QSOX1; quiescin Q6 sulfhydryl oxidase 1; sulfhydryl oxidase 1; mSOx; skin sulfhydryl oxidase; SOx; QSOX; Qscn6; 1300003H02Rik;
Gene ID	104009
mRNA Refseq	NM_001024945
Protein Refseq	NP_001020116
UniProt ID	Q8BND5

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