

Human QSOX1 Protein

Cat. No. QSX-HM201



Description

Source	Recombinant Human QSOX1 Protein is expressed from HEK293 with hFc (IgG1) tag at the N-terminus. It contains Ala30-Ile710.
Accession	O00391-1
Molecular Weight	The protein has a predicted MW of 101.55 kDa. Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Quiescin sulphydryl oxidase 1 (QSOX1) is a disulfide bond-forming enzyme with both disulfide isomerase and oxidoreductase activities. It plays an important role in protein folding, stability, and secretion. QSOX1 is upregulated in many cancers through a combination of genetic, transcriptional, microenvironmental, and post-transcriptional mechanisms. Functionally, QSOX1 can promote tumor progression by enhancing matrix metalloproteinase activity, supporting cancer cell survival under oxidative stress, regulating ECM assembly, and fostering immune-suppressive tumor microenvironments.

Assay Data

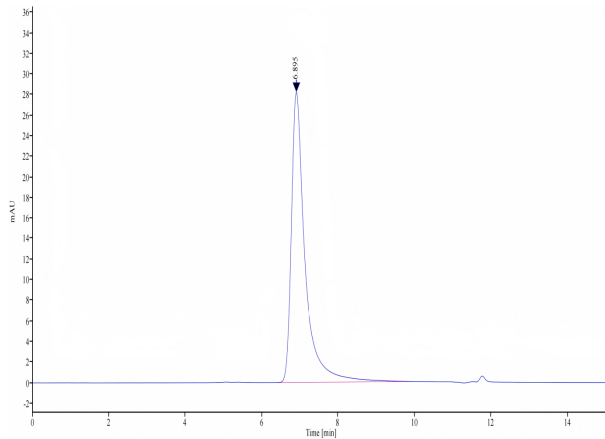
Bis-Tris PAGE



Human QSOX1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human QSOX1 is greater than 95% as determined by SEC-HPLC.