

Recombinant Human Thioredoxin Domain Containing 12 (endoplasmic reticulum), His-tagged

Cat. No. TXNDC12-6840H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TXNDC12 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	27-172aa
Description	TXNDC12 belongs to the thioredoxin super family. Members of this super family possess a thioredoxin fold with a consensus active-site sequence (CxxC) and have roles in redox regulation, defense against oxidative stress, refolding of disulfide-containing proteins, and regulation of transcription factors.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.
Molecular Mass	20.8 kDa (184aa) confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMHN GLGKGFGDHI HWRTLEDGKK EAAASGLPLM VIIHKSWCGA CKALKPKFAE STEISELSHN FVMVNLEDEE EPKDEDFSPD GGYIPRILFL DPSGKVHPEI INENGNPSYK YFYVSAEQVV QGMKEAQERL TGDAFRKKHL EDEL
Purity	>90% by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	TXNDC12 thioredoxin domain containing 12 (endoplasmic reticulum) [Homo sapiens]
Official Symbol	TXNDC12
Synonyms	TXNDC12; thioredoxin domain containing 12 (endoplasmic reticulum); thioredoxin domain-containing protein 12; AGR1; anterior gradient homolog 1 (Xenopus laevis); endoplasmic reticulum thioredoxin superfamily member; 18 kDa; ERP18; ERP19; hAG 1; PDIA16; protein disulfide isomerase family A; member 16; TLP19; ER protein 18; ER protein 19; anterior gradient homolog 1; thioredoxin-like protein p19; endoplasmic reticulum protein ERp19; endoplasmic reticulum resident protein 18; endoplasmic reticulum resident protein 19; protein disulfide isomerase family A, member 16; endoplasmic reticulum thioredoxin superfamily member, 18 kDa; AG1; ERP16; hAG-1; hTLP19;
Gene ID	51060
mRNA Refseq	NM_015913
Protein Refseq	NP_056997
MIM	609448

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UniProt ID	O95881
Chromosome Location	1p32.3
Pathway	Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; glutathione redox reactions II, organism-specific biosystem;
Function	oxidoreductase activity; protein-disulfide reductase (glutathione) activity;

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