

Recombinant Human TXNDC5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TXNDC5-4466H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TXNDC5 MS Standard C13 and N15-labeled recombinant protein (NP_110437) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal endoplasmic reticulum (ER)-signal sequence, three catalytically active thioredoxin domains and a C-terminal ER-retention sequence. Its expression is induced by hypoxia and its role may be to protect hypoxic cells from apoptosis. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring upstream BLOC1S5 gene.
Molecular Mass	44.4 kDa
AA Sequence	MPARPGRLLPLLARPAALTALLLLLLGHGGGGRWGARAEAAAAADGPPAADGE DGQDPHSHLYTADMFTHGIQSAAHFVMFFAPWCGHCQRLQPTWNDLGDKYNSM EDAKVYVAKVDCTAHSVCSAQGVRGYPTLKLKFKPGQEAVKYQGPRDFQTLENWM LQTLNEEPVTPPEPEVEPPSAPELKQGLYELSAFELHVAQGDHFIKFFAPWCGHCK ALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQVRGYPTLLWFRDGGKVDQY

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KGKRDLESLREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
 TIAEGITFIKPYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICKSKYS
 VRGYPTLLLFRGGKKVSEHSGGRDLDSLHRFVLSQAKDELTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TXNDC5 thioredoxin domain containing 5 [Homo sapiens (human)]

Official Symbol TXNDC5

Synonyms TXNDC5; thioredoxin domain containing 5 (endoplasmic reticulum); thioredoxin domain containing 5; thioredoxin domain-containing protein 5; EndoPDI; ERp46; FLJ21353; FLJ90810; Hcc 2; MGC3178; PDIA15; protein disulfide isomerase family A; member 15; ER protein 46; thioredoxin related protein; thioredoxin-like protein p46; endoplasmic reticulum protein ERp46; endothelial protein disulphide isomerase; endoplasmic reticulum resident protein 46; protein disulfide isomerase family A, member 15; ERP46; HCC-2; STRF8; UNQ364; ENDOPDI; FLJ21789;

Gene ID 81567

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mRNA Refseq	NM_030810
Protein Refseq	NP_110437
MIM	616412
UniProt ID	Q8NBS9

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