

**PDIA4, 21-645aa, Human, His tag, E.coli**

**Cat.NO.: TP03329**

3th Edition

**Synonyms:**Protein disulfide-isomerase A4, Endoplasmic reticulum resident protein 72, ERP70, ERP72.

**Description:**PDIA4, also known as ERP72, is an endoplasmic reticulum luminal protein that is both a stress protein and a member of the protein disulfide isomerase family of proteins. It is involved in the catalysis of protein- S-S- bond rearrangement. PDIA3 and PDIA4 act as proteases, protein disulfide isomerases, phospholipases or a combination of these.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

**Molecular Weight:**72.9 kDa (646aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMVAGAEGPDEDSSNRENAIEDEEEEEEDDDEEEDDLEVKEENGVLVLNDANFD  
NFVADKDTVLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPPIVAKIDATSASVLSRFDVSGYPTIKILKKGQAVDYE  
GSRTQEEIVAKVREVSQPDWTPPEVTLVLTKENFDEVVNDADIILVEFYAPWCGHCKKLAPYEKAAKELSKRSPP  
IPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFKLDGDDVII  
IGVFKGESDPAYQQYQDAANLREYKFFHHTFSTEIAKFLKVSQGLVVMQPEKFQSKYEPRSHMMDVQGSTQD  
SAIKDFVLKYALPLVGHKRVSNDAKRYTRRPLVVVYYSVDFSFYRAATQFWRKLVLEKDFPEYTFIADEEDYA  
GEVKDLGLSEGEDVNAAILDESGKKFAMEPEEFDSDLREFVTAFKKGKLPVKSQPVKNNKGPVKVVVGKTF  
DSIVMDPKKDVLIIFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGFPTIYFAPSGDK  
KNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.