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ERP44 Human

Catalog #:PRPS-554

For research use only.

Description:ERP44 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 415 amino acids (30-406 a.a.) and having a molecular mass of 48 kDa. The ERP44 is fused to a 38 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Synonyms:PDIA10, TXNDC4, ER protein 44.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSMEI TSLDTENIDE ILNNADVALV NFYADWCRFS QMLHPIFEEA SDVIKEEFPNENQVVFARVD CDQHSDIAQR YRISKYPTLK LFRNGMMMKR EYRGQRSVKA LADYIRQQKS DPIQEIRDLA EITTLDRSKR NIIGYFEQKDSDNYRVFERV ANILHDDCAF LSAFGDVSKP ERYSGDNIIY KPPGHSAPDM VYLG

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
1mg/ml solution containing 20mM Tris-HCl pH-7.5 & 10% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
ERP44 is an endoplasmic reticulum chaperone that takes part in thiol-dependent retention of the primary secretory pathway, forming mixed disulfides with substrate proteins throμgh its conserved CRFS motif. ERP44 inhibits the calcium channel activity of ITPR1. ERP44 is involved in the control of oxidative protein folding in the endoplasmic reticulum.

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