
Product Data Sheet

Product Name: ERP44 Human
 Cat. No.: GP23418
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms PDIA10; TXNDC4; ER protein 44.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSMEI TSLDTENIDE
 ILNNADVALV NFYADWCRFS QMLHPIFEEA SDVIKEEFPNENQVVFARVD
 CDQHSDIAQR YRISKYPTLK LFRNGMMMKR EYRGQRSVKA LADYIRQQKS
 DPIQEIRDLA EITTLDRSKR NIIGYFEQKSDNYRVFERV ANILHDDCAF
 LSAFGDVSKP ERYSGDNIIY KPPGHSAPDM VYLGAMTNFD VTYNWIQDKC
 VPLVREITFE NGEELTEEGLPFLILFHMKE DTESLEIFQN EVARQLISEK
 GTINFLHADC DKFRHPLLHI QKTPADCPVI AIDSFRHMYV FGDFKDVLP
 GKLKQFVFDLHSGKHLREFH HGPDPDTAP GEQAQDVASS PPESSFQKLA
 PSEYRYTLLR DRDEL.

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

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 through 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.

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.

Background

ERP44 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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