

# **Product datasheet for PH303840**

### OriGene Technologies, Inc.

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## ERO1L (ERO1A) (NM\_014584) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** ERO1L MS Standard C13 and N15-labeled recombinant protein (NP\_055399)

Species: Human Expression Host: HEK293

Expression cDNA Clone

RC203840

or AA Sequence: Predicted MW:

54.4 kDa

Protein Sequence: >RC203840 protein sequence

Red=Cloning site Green=Tags(s)

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAAQRCFCQVSGYLDDCTCDVETIDRFNNYRLFPRLQKLLE SDYFRYYKVNLKRPCPFWNDISQCGRRDCAVKPCQSDEVPDGIKSASYKYSEEANNLIEECEQAERLGAV DESLSEETQKAVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLLNPERYTGYKGPDAWKIWNVIYEENCFK PQTIKRPLNPLASGQGTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHN ITEFQQRFDGILTEGEGPRRLKNLYFLYLIELRALSKVLPFFERPDFQLFTGNKIQDEENKMLLLEILHE IKSFPLHFDENSFFAGDKKEAHKLKEDFRLHFRNISRIMDCVGCFKCRLWGKLQTQGLGTALKILFSEKL

IANMPESGPSYEFHLTRQEIVSLFNAFGRISTSVKELENFRNLLQNIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: NP 055399

RefSeq Size: 3334 RefSeq ORF: 1404

Synonyms: ERO1-alpha; ERO1-L; ERO1-L-alpha; Ero1alpha; ERO1L; ERO1LA



#### ERO1L (ERO1A) (NM\_014584) Human Mass Spec Standard - PH303840

**Locus ID:** 30001

UniProt ID: Q96HE7

Cytogenetics: 14q22.1

**Summary:** Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently

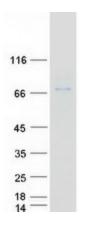
reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB to sustain additional rounds of disulfide formation. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell. Required for the proper folding of immunoglobulins. Involved in the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by

V.cholerae, thereby playing a role in retrotranslocation of the toxin. Plays an important role in ER stress-induced, CHOP-dependent apoptosis by activating the inositol 1,4,5-trisphosphate

receptor IP3R1.[UniProtKB/Swiss-Prot Function]

**Protein Pathways:** Vibrio cholerae infection

## **Product images:**



Coomassie blue staining of purified ERO1A protein (Cat# [TP303840]). The protein was produced from HEK293T cells transfected with ERO1A cDNA clone (Cat# [RC203840]) using MegaTran 2.0 (Cat# [TT210002]).