

Human ERH / DROER Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14483-H07E

General Information

Gene Name Synonym:

DROER

Protein Construction:

A DNA sequence encoding the mature form of human ERH (P84090) (Met1-Lys104) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human ERH consists of 119 amino acids and predicts a molecular mass of 14.1 KDa. It migrates as an approximately 14 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mMTris, 0.1M NaCl, 1mM DTT, 20% glycerol pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

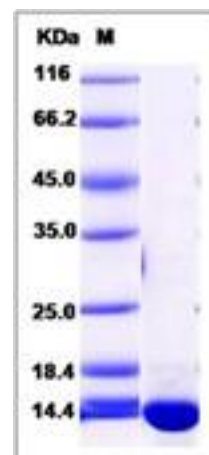
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ERH(enhancer of rudimentary homolog) belongs to the E(R) family. It is expressed in all tissues examined. The monomeric structure of ERH comprises a single domain consisting of three α -helices and four β -strands, which is a novel fold. In the crystal structure, ERH assumes a dimeric structure, through interactions between the β -sheet regions. The formation of an ERH dimer is consistent with the results of analytical ultracentrifugation. ERH may have a role in the cell cycle. The Drosophila protein ERH is a small protein of 104 amino acids. It has been found to be an enhancer of the rudimentary gene, involved in pyrimidine biosynthesis. From an evolutionary point of view, ERH is highly conserved and has been found to exist in probably all multicellular eukaryotic organisms. ERH interacts with POLDIP3.

References

- 1.Wojcik E, *et al.* (1994) The secreted glycoprotein CREG enhances differentiation of NTERA-2 human embryonal carcinoma cells. *Oncogene*. 19(17):2120-8.
- 2.Wen SJ, *et al.* (2003) Screening the proteins that interact with calpain in a human heart cDNA library using a yeast two-hybrid system. *Hypertens Res*. 25(4):647-52.
- 3.Gelsthorpe M, *et al.* (1997) The putative cell cycle gene, enhancer of rudimentary, encodes a highly conserved protein found in plants and animals. *Gene*. 186(2):189-95.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217

• Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288

• Tel:+86-400-890-9989

• <http://www.sinobiological.com>