

Recombinant human DPPA5/ESG1 protein

Catalog Number: ATGP2901

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-116aa

UniProt No.

A6NC42

NCBI Accession No.

NP_001020461

Alternative Names

Developmental pluripotency-associated 5 proteins, Developmental pluripotency-associated 5 proteins, ESG1

PRODUCT SPECIFICATION

Molecular Weight

15.9 kDa (139aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Phosphate buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Developmental pluripotency-associated 5 proteins, also known as DPPA5, is a 116 amino acid protein that localizes to the cytoplasm and contains one KH domain. Expressed in embryonic germ (EG), primordial germ (PG) and embryonic stem (ES) cells, DPPA5 plays an important role in the maintenance of ES cell pluripotency and may be necessary for proper embryogenesis. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Recombinant human DPPA5 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MGTLPAR RHIPPWVKVP EDLKDPEVFQ VQTRLLKAIF GPDGSRIPYIEQVSKAMLEL
KALESSDLTE VVYGSYLYK LRTKWMLQSM AEWHRQRQER GMLKLAEAMN ALELGPWMK

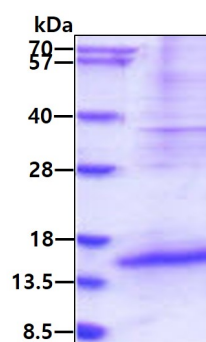
General References

Kim S K., et al. (2005) Stem Cells. 23: 458-462.

Pirre A., et al. (2007) Genomics. 90: 583-594.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.