

Recombinant human E-Cadherin/CDH1 protein

Catalog Number: ATGP3307

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-709aa

UniProt No.

P12830

NCBI Accession No.

NP_004351.1

Alternative Names

CDH1, Arc-1, CD324, CDHE, ECAD, LCAM, UVO, Cadherin-1, Epithelial cadherin, Uvomorulin, CAM 120/80

PRODUCT SPECIFICATION

Molecular Weight

76.8 kDa (695aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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

CDH1, also known as cadherin-1, is a member of cell surface glycoproteins that mediate cell adhesion. Human CDH1 shares amino acid sequence identity with the rat and mouse proteins. It is a single-pass transmembrane protein that mediates calcium-dependent epithelial cell adhesion. This protein preferentially interacts with themselves in a homophilic manner in connecting cells. It may thus contribute to the sorting of heterogeneous

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cell types. It is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. It is a ligand for integrin alpha-E/beta-7. Recombinant human CDH1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

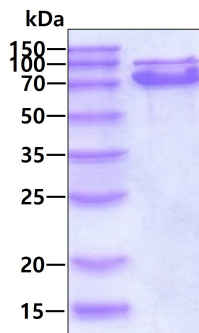
QEPEPCHPGF DAESYFTTVP RRHLERGRVL GRVNFEDCTG RQRTAYFSLD TRFKVGTGDV ITVKRPLRFH NPQIHFLVYA
WDSTYRKFSK KVTLNVTGHH HRPPPHQASV SGIQAELLTF PNSSPGLRRQ KRDWVIPPIS CPENEKGPFP KNLVQIKSNK
DKEGKVFYSI TGQGADTPPV GVFIERETG WLKVTEPLDR ERIATYTLFS HAVSSNGNAV EDPMEILITV TDQNDNKPEF
TQEVFKGSVM EGALPGTSVM EVTATDADDD VNTYNAAIAY TILSQDPELP DKNMFTINRN TGVISVTTG LDRESFPTYT
LVVQAADLQG EGLSTTATAV ITVTDNDNP PIFNPTYKQ QVPENANVV ITTLKVTAD APNTPAWEAV YLINDDGGQ
FVTTNPVNN DGILKTAKGL DFEAKQQYIL HVAVTNVVVF EVSLTTSTAT VTVDVLDVNE APIFVPPEKR VESEDFGVG
QEITSYTAQE PDTFMEQKIT YRIWRDTANW LEINPDTGAI STRAELDRED FEHVKNSTYT ALIATDNGS PVATGTGTL
LILSDVNDNA PIPEPRTIFF CERNPKPQVI NIIDADLPPN TSPFTAELTH GASANWTIQY NDPTQESIIL KPKMALEVGD
YKINLKLMDN QNKDQVTTL VSVCDCEGAA GVCRKAQPVE AGLQIPA<LEH HHHHH>

General References

Fulga V., et al. (2015) *Anticancer Res.* 35:759-765.
Zhang L., et al. (2014) *Mutat. Res.* 770:106-111.

DATA

SDS-PAGE



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