

Cadherin-1, 24-709aa, Human, His tag, Insect cell

Cat.NO.: TP01399

3th Edition

Synonyms:CDH1, Arc-1, CD324, CDHE, ECAD, LCAM, UVO

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 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.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:76.6kDa (694aa), 70kDa (SDS-PAGE under reducing conditions)

Sequences:

EPEPCHPGFDAESYFTVPRRHLEGRVLRVNFEDCTGRQRTAYFSLDTRFKVGTGVDGVTVKRPLRFHNPQIHFL
VYAWDSTYRKFKSTKVTLNTVGHHRPPPHQASVSGIQAELLTFPNSSPGLRRQKRDWVIPPISCPENEKGPFPKNL
VQIKSNKDKGKVFYSITGQGADTPPVGVFIERETGWLKVTEPLDRERIATYTLFSHAVSSNGNAVEDPMEILITVTD
QNDNKPEFTQEVFKGSVMGALPGTSVMEVTATDADDDVNTYNAIAYTILSQDPELPDKNMFTINRNTGVISVTT
GLDRESFPTYTLVVQAADLQGEGLSTTATAVITVTDNDNPPIFNPTTYKGQVPEANVVITTLKVTDADAPNTPA
WEAVYTILNDDGGQFVVTNPNVNDGILKTAKGLDFEAKQQYILHVAVTNVVPFEVSLTTSTATVTVDVLVDVNEAPIF
VPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRIWRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYTA
LIATDNGSPVATGTGTLILLSDVNDNAPIPEPRTIFFCERNPKPQVINIIDADLPPNTSPFTAELTHGASANWTIQYND
PTQESIILKPKMALEVGDYKINLKLMDNQNKDQVTTLEVSVCDCEGAAGVCRKAQPVEAGLQIPALEHHHHHH

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.