Proteins



Product Data Sheet

Animal-Free EpCAM/TROP1 Protein, Human (His)

Cat. No.: HY-P700037AF

Synonyms: Epithelial cell adhesion molecule; Ep-CAM; EGP; KSA; CD326; TROP1

Species: Source: E. coli

P16422 (Q24-K265) Accession:

Gene ID: 4072

Molecular Weight: Approximately 28.36 kDa

PROPERTIES

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| AA | - | മവ | 11 | ΔI | n | \sim |
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MQEECVCENY KLAVNCFVNN NRQCQCTSVG AQNTVICSKL AAKCLVMKAE MNGSKLGRRA KPEGALQNND GLYDPDCDES GLFKAKQCNG TSMCWCVNTA GVRRTDKDTE ITCSERVRTY WIIIELKHKA REKPYDSKSL RTALQKEITT RYQLDPKFIT TQNDVDIADV SILYENNVIT IDLVQNSSQK AYYFEKDVKG ESLFHSKKMD LTVNGEQLDL DPGQTLIYYV DEKAPEFSMQ

GLK

Biological Activity

Measure by the ability of the immobilized protein to support the adhesion of the 3T3 cells. The ED₅₀ for this effect is 0.2-1.7

Lyophilized powder.

Formulation

Appearance

Lyophilized from a solution containing 1X PBS, pH 8.0.

Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The EpCAM/TROP1 Protein emerges as a pivotal entity, potentially functioning as a physical homophilic interaction molecule that fosters direct contact between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium, thereby contributing to the establishment of an immunological barrier as the primary defense against mucosal infections. Beyond its role in mucosal immunity, this protein plays a significant part in the proliferation and differentiation of embryonic stem cells. It further exhibits regulatory influence by up-regulating the expression of FABP5, MYC, and cyclins A and E, implicating EpCAM/TROP1 in the modulation of key cellular processes. Its monomeric nature and interaction with phosphorylated CLDN7 underscore the intricate molecular interactions involved, providing insights into the diverse functions of this protein in cellular physiology.

Caution: Product has not been fully validated for medical applications. For research use only.

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