# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 35-240aa

UniProt No. Q3KPI0

NCBI Accession No. NP\_001091976

### **Alternative Names**

Carcinoembryonic antigen-related cell adhesion molecule 21, R29124\_1, CEA cell adhesion molecule 21

# **PRODUCT SPECIFICATION**

Molecular Weight 25 kDa (229aa)

**Concentration** 1mg/ml (determined by Bradford assay)

#### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

#### Purity

> 90% 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

CEACAM21 is a member of the family of carcinoembryonic antigen-related cell adhesion molecules (CEACAMs), which are used by several bacterial pathogens to bind and invade host cells. The transmembrane protein directs phagocytosis of several bacterial species that is dependent on the small GTPase Rac. It is thought to serve an important role in controlling human-specific pathogens by the innate immune system. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. Recombinant human CEACAM21 protein, fused to His-tag at N-terminus, was expressed in E. coli.



#### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSWLFIASA PFEVAEGENV HLSVVYLPEN LYSYGWYKGK TVEPNQLIAA YVIDTHVRTP GPAYSGRETI SPSGDLHFQN VTLEDTGYYN LQVTYRNSQI EQASHHLRVY ESVAQPSIQA SSTTVTEKGS VVLTCHTNNT GTSFQWIFNN QRLQVTKRMK LSWFNHVLTI DPIRQEDAGE YQCEVSNPVS SNRSDPLKLT VKSDDNTLG

### **General References**

Schmitter T, Agerer F, et al. (2004). J Exp Med. 199(1):35-46.

SDS-PAGE	
(kDa) 70 57	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.
40 🗢	
28	
18 🗕	
13.5 🖊	
8.5	
15% SDS-PAGE (3ug	0