

# Product Information

## MemDX™ Membrane Protein Human CD3E (CD3e molecule) Full Length

Cat. No.: **MPC2175K**

This product is for research use only and is not intended for diagnostic use.

This product is a 23.1 kDa Human CD3E membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

CD3E

#### Protein Length

Full length

#### Protein Class

Receptor; Immunity

#### Molecular Weight

23.1 kDa

#### TMD

1

#### Sequence

MQSGTHWRVLGLCLLSVGWVGQDGNEEMGGITQTPYKVSISGTTVILTCP  
QYPGSEILWQHNDKNIGGDEDDKNIGSDEDHLSLKEFSELEQSGYYVCYP  
RGSKPEDANFYLYLRARVCENCMEMDVMSVATIVDITGGLLLVYY  
WSKNRKAKAKPVTRGAGAGGRQRGQNKERPPVPNPDYEPKRGQRDLYS  
GLNQRRRI

### Product Description

#### Expression Systems

HEK293

#### Tag

Based on specific requirements

#### Protein Format

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

CD3E

**Full Name**

CD3e molecule

**Introduction**

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

**Alternative Names**

CD3E; T3E; TCRE; IMD18; T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; CD3e antigen, epsilon polypeptide (TiT3 complex); CD3e molecule, epsilon (CD3-TCR complex); T-cell antigen receptor complex, epsilon subunit of T3; T-cell surface antigen T3/Leu-4 epsilon chain; CD3e molecule

**Gene ID**

[916](#)

**UniProt ID**

[P07766](#)