

## Technical Data Sheet

### PE Conjugated Human Mesothelin (E296-G580) Protein (C-His)

**Catalog Number:** 801503, 801504  
**Size:** 25 ug, 100 ug  
**Target Name:** Mesothelin, MPF, MSLN  
**Regulatory Status:** RUO

#### Product Details

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**Application:** FC  
**Format:** Liquid, PE  
**Expression Host:** HEK293  
**Species:** Human  
**Sources:** Human Mesothelin protein (Accession # AAH09272.1) (Glu296-Gly580) with C-terminus His tag is expressed in HEK293 cells and conjugated to PE.  
**Accession Number:** Q13421  
**Molecular Weight:** The protein has a predicted molecular weight of 34kDa. Under DTT-reducing conditions, it migrates at approximately 35-45 kDa on SDS-PAGE prior to conjugation.  
**Affinity Tag:** C-His  
**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein  
**Endotoxin level:** Not tested  
**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.  
**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### Background Information

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Mesothelin (MSLN), also known as CAK1, is a 70 kDa cell-surface protein cleaved into MPF (30 kDa) and mesothelin (40 kDa). MPF acts as a cytokine, while mesothelin is membrane-bound via glycosylphosphatidylinositol. It is overexpressed in various cancers, including mesotheliomas and ovarian cancer, and interacts with MUC16/CA-125, a cancer biomarker. Elevated mesothelin levels in serum make it a target for diagnostics and therapies, such as the recombinant immunotoxin SS1P, which has shown promise in clinical trials.