



Recombinant Protein Technical Manual
Recombinant Human CDO/CDON Protein (His Tag)
RPES3555

Product Data:

Product SKU: RPES3555

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q4KMG0

Protein Information:

Molecular Mass: 100.4 kDa

AP Molecular Mass: 12035 kDa

Tag: C-His

Bio-activity:

Purity: > 85% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Cell adhesion molecule-related/down-regulated by oncogenes; CDON; CDO

Immunogen Information:

Sequence: Asp26-Pro943

Background:

CDO (CAM-related/down-regulated by oncogenes) is a member of the Immunoglobulin (Ig) superfamily, Ig/Fibronectin (FN) type III repeat family of cell surface proteins. Human CDO is a type I transmembrane (TM) glycoprotein. It is synthesized as a 1287 amino acid (aa) precursor that contains a 25 aa signal sequence, a 938 aa extracellular domain (ECD), a 21 aa TM segment and a 303 aa cytoplasmic region. The ECD contains five C2-type Ig-like domains, followed by three FN type III repeats. The ECD of human CDO is 85% aa identical to mouse CDO ECD. CDO is found on muscle precursor and neural progenitor cells of the embryo. It likely promotes muscle differentiation, and contributes to axon guidance and neuronal patterning.