



Recombinant Protein Technical Manual
Recombinant Mouse Cathepsin D/CTSD Protein (His
Tag)
RPES0497

Product Data:

Product SKU: RPES0497

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: NP_034113.1

Protein Information:

Molecular Mass: 43.9 kDa

AP Molecular Mass: 56 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 20mM MES,150mM NaCl,pH5.5.

Reconstitution: Please refer to it for detailed information.

Application:

Synonyms: Cathepsin D; CTSD;CPSD

Immunogen Information:

Sequence: Ile21-Leu410

Background:

CTSD localizes to the lysosome and consists of a light chain and a heavy chain. CTSD is expressed in epithelial cells as well as in macrophages. CTSD is a lysosomal aspartyl protease that depends critically on protonation of its active site Asp residue and gets activated at pH 5 in endosome of hepatocytes. It has been suggested to facilitate cancer cell migration and invasion by digesting the basement membrane, extracellular matrix and connective tissue. In addition, CTSD has been used as a breast cancer tumor marker.