



Recombinant Protein Technical Manual

Recombinant Human Cathepsin B/CTSB Protein (His Tag)

RPE54612

Product Data:

Product SKU: RPE54612

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P07858

Protein Information:

Molecular Mass: 36.9 kDa

AP Molecular Mass: 40 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

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

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt; store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µM filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.

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

Application:

Synonyms: Cathepsin B; APP Secretase; APPS; Cathepsin B1; CTSB; CPSB

Immunogen Information:

Sequence: Arg18-Ile339

Background:

Cathepsin B is an enzymatic protein belonging to the peptidase (or protease) families. The protein encoded by this gene is a lysosomal cysteine protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is a member of the peptidase C1 family. At least five transcript variants encoding the same protein have been found for this gene. Cystatin-B / CSTB is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. Cystatin-B / CSTB is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, h and b. Cystatin-B / CSTB is also thought to play a role in protecting against the proteases leaking from lysosomes