



Recombinant Protein Technical Manual

Recombinant Human CMPK1 Protein (His Tag)

RPES0709

Product Data:

Product SKU: RPES0709

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P30085

Protein Information:

Molecular Mass: 24.5 kDa

AP Molecular Mass: 27 kDa

Tag: N-His

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 sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol

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

Application:

Synonyms: CK;CMK;CMPK;UMK;UMP-CMPK;UMPK

Immunogen Information:

Sequence: Met 1-Gly 196

Background:

CMPK1 plays a key role in the maintenance of pyrimidine nucleotide pool profile and for the metabolism of pyrimidine analogs in cells. It catalyzes the phosphoryl transfer from ATP to UMP, CMP, and deoxy-CMP (dCMP), resulting in the formation of ADP and the corresponding nucleoside diphosphate. CMPK1 also has a significant role in the activation of pyrimidine analogs, which are clinically useful anti-cancer and anti-viral drugs. In the meanwhile, CMPK1 functions in cellular nucleic acid biosynthesis.