Recombinant Human CMPK1 Protein (His Tag)

Catalog No. PKSH030319

Note: Centrifuge before opening to ensure complete recovery of vial contents.

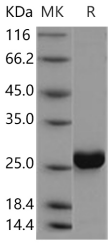
Description

Synonyms	CK;CMK;CMPK;UMK;UMP-CMPK;UMPK
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Gly 196
Accession	P30085
Calculated Molecular Weight	24.5 kDa
Observed molecular weight	27 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein 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 solution of 20mM Tris, 500mM Nacl, pH 7.4, 10% glycerol
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.