9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-3126: TK2 Recombinant Protein

Alternative Name : Thymidine kinase 2 mitochondrial,Mt-TK,TK2,MTTK,MTDPS2.

Description

Source : E.coli. TK2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 257 amino acids (34-265 a.a) and having a molecular mass of 30.2kDa.TK2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Thymidine kinase 2 mitochondrial (TK2) is a member of the DCK/DGK family. TK2 is an enzyme, a phosphotransferase (a kinase): 2'-deoxythymidine kinase, ATP-thymidine 5'-phosphotransferase. Thymidine kinase is found in most living cells. Thymidine kinase is present in 2 forms in mammalian cells, TK1 and TK2. Thymidine kinases have a central function in the synthesis of DNA and thus in cell division, since they are part of the exceptional reaction chain to introduce deoxythymidine into the DNA. TK2 is a deoxyribonucleoside kinase which specifically phosphorylates thymidine, deoxycytidine, and deoxyuridine. TK2 localizes to the mitochondria and is essential for mitochondrial DNA synthesis. TK2 gene defects are a cause of mitochondrial DNA depletion syndrome type 2 (MTDPS2).

Product Info

Amount :	10 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	TK2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH8.0, 30% glycerol, 2mM DTT and 200mM NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSHMVQRRA WPPDKEQEKE KKSVICVEGN IASGKTTCLE FFSNATDVEV LTEPVSKWRN VRGHNPLGLM YHDASRWGLT LQTYVQLTML DRHTRPQVSS VRLMERSIHS ARYIFVENLY RSGKMPEVDY VVLSEWFDWI LRNMDVSVDL IVYLRTNPET CYQRLKKRCR EEEKVIPLEY LEAIHHLHEE WLIKGSLFPM AAPVLVIEAD HHMERMLELF EQNRDRILTP ENRKHCP.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.