

TK1 Potein, Canine, Recombinant (His)

General Information

Synonyms:	thymidine kinase-1;EC 2.7.1.21;Thymidine kinase
Protein Construction:	Ser2-Asn242
Species:	Canine
Expression Host:	E. coli
Accession:	E2QXP4
Molecular Weight:	27.41 kDa (predicted). The protein migrates to 25-28 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 20 mM NaAc, 150 mM NaCl (pH 5.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Thymidine kinase 1 (TK1) catalyzes the initial phosphorylation of thymidine in the salvage pathway synthesis of dTTP, an essential building block of DNA. TK1 is a cytosolic enzyme with its highest level during the S-phase of the cell cycle.

Reference

Wang L, et al. Hypermethylation in Calca Promoter Inhibited ASC Osteogenic Differentiation in Rats with Type 2 Diabetic Mellitus. *Stem Cells Int.* 2020 Mar 4;2020:5245294. doi: 10.1155/2020/5245294. PMID: 32190058; PMCID: PMC7073499.

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