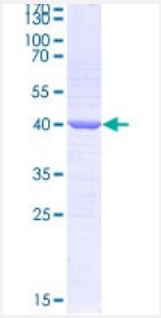
DMPK (Human) Recombinant Protein (Q01)

Catalog # H00001760-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human DMPK partial ORF (AAH62553.1, 303 a.a. - 420 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	DEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFFGLDWDGLRDSVPPFTPDFEGATDTCN FDLVEDGLTAMVSGGGETLSDIREGAPLGVHLPFVGYSYSCMALRDSEVPGPTP
Theoretical MW (kDa)	38.72
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DMPK

Entrez GeneID	1760
GeneBank Accession#	BC062553.1
Protein Accession#	AAH62553.1
Gene Name	DMPK
Gene Alias	DM, DM1, DM1PK, DMK, MDPK, MT-PK
Gene Description	dystrophia myotonica-protein kinase
Omim ID	160900 605377
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a serine-threonine kinase that is closely related to other kinases that interact with members of the Rho family of small GTPases. Substrates for this enzyme include myogenin, the beta-subunit of the L-type calcium channels, and phospholemman. The 3' untranslated region of this gene contains 5-37 copies of a CTG trinucleotide repeat. Expansion of this unstable motif to 50-5,000 copies causes myotonic dystrophy type I, which increases in severity with increasing repeat element copy number. Repeat expansion is associated with condensation of local chromatin structure that disrupts the expression of genes in this region. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq
Other Designations	DM protein kinase|dystrophia myotonica 1|myotonic dystrophy associated protein kinase|myotonic dystrophy protein kinase|myotonin protein kinase A|thymopoietin homolog

Disease

- Arrhythmia
- Atherosclerosis

- Calcinosis
- Cardiovascular Diseases
- Cataract
- Chromosome Disorders
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Fragile X syndrome
- Friedreich Ataxia
- Genetic Predisposition to Disease
- Kidney Failure
- Muscular Atrophy
- Myotonic dystrophy
- Schizophrenia
- Spinal muscular atrophy
- Spinocerebellar ataxia
- Stress
- Thrombosis