



## AMPK alpha1 catalytic subunit [T172D] (3 - 308)

Catalog Number (DU Number):

**DU1713**

Accession:

**U40819**

Expression

**bacteria**

Terminus and Tag:

**N-Term GST Uncleaved**

**N-Term Myc Uncleaved**

Purification Method:

**GSH Sepharose**

Enzymatic Assay Format:

**Standard filter binding assay**

Enzymatic Buffer:

**50 mM Tris-HCl pH 7.5, 0.1mM EGTA, 0.1 % 2-mercaptoethanol, 10 mM MgAc**

Enzymatic Substrate:

**AMARA peptide [AMARAASAAALARRR]; Final concentration: 300 ?M**

Calculated Molecular Mass:

**Mono-Isotopic Mass: 64,554.94**

**Average Mass: 64,596.68**

Protein Activity:

**Constitutively Active**

Purity:

**> 90 %**

Storage Buffer:

**50 mM Tris-HCl pH 7.5, 50 % glycerol, 150 mM NaCl, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.2 mM PMSF, 1 mM Benzamidine**

Storage Temperature:

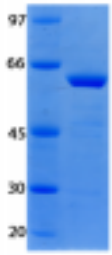
**-20 °C**

Theoretical pI:

**6.05**

Gel Information :

## Gel Image 1:



### Native Sequence:

**Amino acids E3 - L308 of rat AMP kinase alpha 1. [Full length protein ends at residue Q548]**  
**Residue E244 of the fusion protein is equivalent to E3 of the native enzyme. The enzyme has a T172D mutation in order to mimic phosphorylation of the enzyme. Residue T172 is equivalent to D413 of the fusion protein. The GST tag is located at residues 1 - 220 and the MYC tag is located at residues 231 - 240. The following sequence is present after the AMPK sequence, RSITLAAARDRLD, residues 550 - 562.**

### Protease Cleavage:

**Thrombin (LVPRGS) residues 221 - 226**

### Cloning Sites:

**BamH1 and Not1 of pGEX 4T**

Price per aliquot (100µg):

**£100.00**