



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:

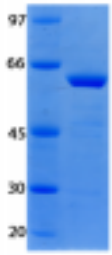
-20 °C

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