



CaMKK alpha (1 - 505)

Long Name:

CaMKK alpha isoform a

Catalog Number (DU Number):

DU8208

Accession:

NM_172206

Expression

bacteria

Terminus and Tag:

N-Term GST Uncleaved

C-Term 6His Uncleaved

Purification Method:

GSH Sepharose

Enzymatic Assay Format:

Standard filter binding assay

Enzymatic Buffer:

**50 mM Tris-HCl pH 7.5, 500 μ M CaCl₂, 0.3 μ M calmodulin, 0.1 mM EGTA, 0.1 %
2-mercaptoethanol, 10 mM magnesium acetate**

Enzymatic Substrate:

**AKPKGNKDYHLQTCCGSLAYRRR, residues 155 – 175 of human MELK (T loop + added Arg
residues at C terminus) Final concentration: 300 μ M**

Calculated Molecular Mass:

Mono-Isotopic Mass: 83,686.83

Average Mass: 83,739.84

Protein Activity:

Constitutively Active

Purity:

85 %

Storage Buffer:

**50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol,
0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF**

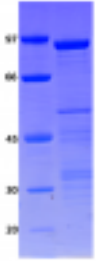
Storage Temperature:

-20 °C

Theoretical pI:
5.75

Gel Information :

Gel Image 1:



Native Sequence:

Amino acids M1 – S505 (end) of human CaMKK alpha isoform a. Residue M235 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220 and the His(6) tag is located at residues 740 – 745.

Protease Cleavage:

PreScission (LEVLFGGPL) residues 221 - 229

Cloning Sites:

EcoR1 and Not1 site of pGEX 6P-1

Price per aliquot (100µg):

£100.00