



## 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  $\mu$ M CaCl<sub>2</sub>, 0.3  $\mu$ 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  $\mu$ 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:

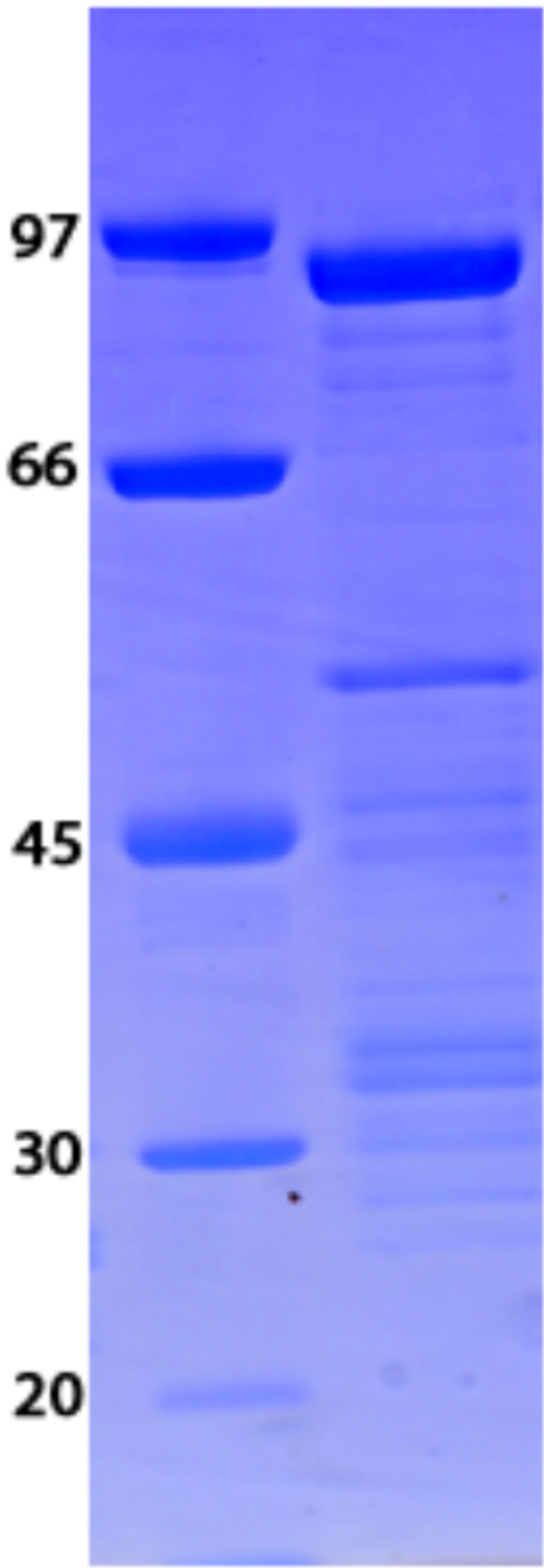
**-20 °C**

Theoretical pl:  
**5.75**

Gel Information :

**Gel Image 1:**





Native Sequence:

**Amino acids M1 – S505 (end) of human CaMKK alpha isoform  $\alpha$ . 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 (LEVLFQGPL) residues 221 - 229**

Cloning Sites:

**EcoR1 and Not1 site of pGEX 6P-1**

Price per aliquot (100 $\mu$ g):

**£110.00**