

## DAPK1 / DAP Kinase 1 Active Protein | DAPK1 active protein

Recombinant Human DAPK1 / DAP Kinase 1 Protein (aa 1-363, His & GST tag)

CATALOG #  
**AAA173507**

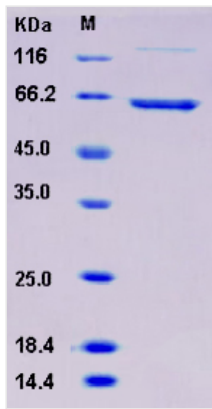
### PRODUCT SYNONYMS

DAPK1 / DAP Kinase 1; Recombinant Human DAPK1 / DAP Kinase 1 Protein (aa 1-363; His & GST tag); RP11-104M22.1; MGC126323; MGC126324; DAPK1 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | (78.5 + 12.2%) as determined by SDS-PAGE                                                                                                                                                                                                                                                                  |
| Form/Format             | Supplied as sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly                                                                                                                                                                                                                                                |
| Concentration           | 0.3 mg/mL measured by UV-Vis (varies by lot)                                                                                                                                                                                                                                                              |
| Sequence Length         | 1430                                                                                                                                                                                                                                                                                                      |
| Source                  | Human                                                                                                                                                                                                                                                                                                     |
| Expression Host         | Baculovirus-insect cells                                                                                                                                                                                                                                                                                  |
| Protein Construction    | A DNA sequence encoding the N-terminal segment of human DAPK1 (P53355-1) (Met 1-Leu 363) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.                                                                                                                                    |
| Bio-Activity            | The specific was determined to be 20 nmo/min/mg using synthetic R11-S6-Peptid (R11-IAKRRRLSSLRASTSKSESSQK) as substrate.                                                                                                                                                                                  |
| Predicted N-terminal    | Met                                                                                                                                                                                                                                                                                                       |
| Molecular Mass          | The recombinant human DAPK1 (aa 1-363)/GST chimera consists of 600 amino acids and has a calculated molecular mass of 69.4 kDa. It migrates as an approximately 64 kDa band in SDS-PAGE under reducing conditions.                                                                                        |
| Endotoxin               | < 1.0 EU per ug of the protein as determined by the LAL method                                                                                                                                                                                                                                            |
| Component               | Total Volume is 67 uL                                                                                                                                                                                                                                                                                     |
| Preparation and Storage | <p><b>Storage:</b> Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted and be used as soon as possible.</p> <p>Avoid repeated freeze-thaw cycles.</p> <p><b>Stability:</b> Samples are stable for up to twelve months from date of receipt at -70 °C</p> |

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for DAPK1 active protein | Death-associated protein kinase 1, also known as DAP kinase 1, DAPK1 and DAPK, is a cytoplasm protein which belongs to the protein kinase superfamily, CAMK Ser / Thr protein kinase family and DAP kinase subfamily. DAPK1 contains ten ANK repeats, one death domain and one protein kinase domain. DAPK1 is a calcium / calmodulin-dependent serine/threonine kinase which acts as a positive regulator of apoptosis. DAPK1 gene is a candidate tumor suppressor (TSG) and the abnormal methylation of DAPK1 gene has been found in many carcinomas. DAPK1 over-expression can induce cell apoptosis and inhibit tumor cell metastasis. DAPK1 gene over-expression could suppress PGCl3 cells malignant phenotype , inhibit PGCl3 cells growth, invasive, migration and adhesion ability, upregulate p53 gene and downregulate bcl-2 gene. Loss of activity of death-associated protein kinase 1 (DAPK1) may be an independent factor affecting survival of non-small cell lung cancer patients. DAPK1 promoter methylation might play a significant role in the progression of chronic myeloid leukemia (CML). |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 570359575                                                      |
| NCBI GeneID                      | 1612                                                           |
| NCBI Accession #                 | NP_001275658.1                                                 |
| NCBI GenBank Nucleotide #        | NM_001288729.1                                                 |
| UniProt Accession #              | P53355; Q14CQ7; Q1W5W0; Q68CP8; Q6ZRZ3; Q9BTL8; B7ZLD2; B7ZLE7 |
| NCBI Official Full Name          | death-associated protein kinase 1                              |
| NCBI Official Synonym Full Names | death associated protein kinase 1                              |
| NCBI Official Symbol             | DAPK1                                                          |
| NCBI Official Synonym Symbols    | DAPK                                                           |
| NCBI Protein Information         | death-associated protein kinase 1                              |
| UniProt Protein Name             | Death-associated protein kinase 1                              |
| UniProt Gene Name                | DAPK1                                                          |
| UniProt Synonym Gene Names       | DAPK; DAP kinase 1                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.