

## Product datasheet for PH325807

### Chk1 (CHEK1) (NM\_001114122) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CHEK1 MS Standard C13 and N15-labeled recombinant protein (NP_001107594)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225807
Predicted MW:	54.4 kDa
Protein Sequence:	>RC225807 protein sequence Red=Cloning site Green=Tags(s)

MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINKMLNHENVVKF  
YGHRREGNIQYLFLEYCSGGELFDRIEIPDIGMPEPDAQRFHQLMAGVVYLHGIGITHRDIKPENLLLDE  
RDNLKISDFGLATVFRYNNRERLLNKMCGTLPYVAPPELLKRREFHAEPVDVWSCGIVLTAMLGELPWDQ  
PSDSCQEYSDWKEKKTYPWPKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTS  
GGVSESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQGISFSQPTCP  
DHMLLSQLLGTGSSQNPWQRLVKRMTRFFTKLDADKSYQCLKETCEKLGQWKKSCMNQVTISTDDR  
NNKLIFKVNLLMDDKILVDFRLSKGDGLEFKRHFLLKIKGKLIIDIVSSQKVWLPAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_001107594</a></u>
RefSeq Size:	4174
RefSeq ORF:	1428
Synonyms:	CHK1



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Locus ID: 1111

UniProt ID: [O14757](#), [B4DT73](#)

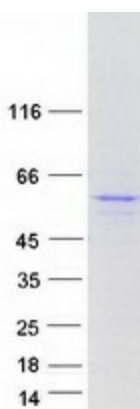
Cytogenetics: 11q24.2

**Summary:** The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011]

**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:** Cell cycle, p53 signaling pathway

### Product images:



Coomassie blue staining of purified CHEK1 protein (Cat# [TP325807]). The protein was produced from HEK293T cells transfected with CHEK1 cDNA clone (Cat# [RC225807]) using MegaTran 2.0 (Cat# [TT210002]).