

Catalog No.: RP03512LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	5894	P04049

N-Flag

RAF proto-oncogene serine/threonine-protein kinase;Proto-oncogene c-RAF (cRaf);Raf-1; RAF1;RAF

Source	Purification
<i>E. coli</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
9.7 KDa	10-15 kDa

Please contact us for more information.

0.22 μ m filtered solution of 50 mM HEPES (pH 7.5), 200 mM NaCl, 20% glycerol, 1 mM DTT.

Please use rapid thawing with running water to thaw the protein samples. For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions. Aliquots below 10 μ l are not advisable. Avoid repetitive freeze-thaw cycles!

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RAF proto-oncogene serine/threonine-protein kinase, also known as proto-oncogene c-RAF or simply c-Raf or even Raf-1, is an enzyme that in humans is encoded by the RAF1 gene. The c-Raf protein is part of the ERK1/2 pathway as a MAP kinase (MAP3K) that functions downstream of the Ras subfamily of membrane associated GTPases. C-Raf is a member of the Raf kinase family of serine/threonine-specific protein kinases, from the TKL (Tyrosine-kinase-like) group of kinases. The regulation of c-Raf activity is complex. As a "gatekeeper" of the ERK1/2 pathway, it is kept in check by a multitude of inhibitory mechanisms, and normally cannot be activated in a single step. The most important regulatory mechanism involves the direct, physical association of the N-terminal autoinhibitory block to the kinase domain of c-Raf. It results in the occlusion of the catalytic site and full shutdown of kinase activity.

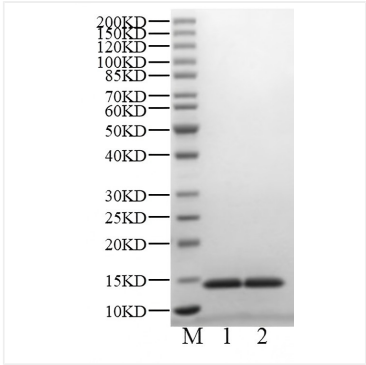
Recombinant Human RAF1/c-Raf Kinase is produced by E. coli cells expression system. The target protein is expressed with sequence (N56-L131) of Human RAF1/c-Raf (Accession #NP_002871.1) fused with Flag at the N-terminus.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human RAF1/c-Raf Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.