

Recombinant Human RAF1/c-Raf Protein

Catalog No.: RP03512LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5894 P04049

Tags

N-Flag

Synonyms

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

Product Information

Source Purification *E. coli* ≥ 95 % as

determined by SDS-PAGE.

FAG

Calculated MW Observed MW

9.7 KDa 10-15 kDa

Endotoxin

Please contact us for more information.

Formulation

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

Reconstitution

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 store in diluted solutions.Aliquots below 10 µl are not advisable.Avoid repetitive freezethaw cycles!

Contact

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Background

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.

Basic Information

Description

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.

Bio-Activity

Shipping

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

Storage

Store at -70°C. This product is stable at \leq -70°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. Avoid repeated freeze/thaw cycles.

Operational Notes

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.