

Recombinant Human RAF1/c-Raf (Y340D, Y341D) Protein

Catalog No.: RP03350LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5894	P04049

Tags

N-GST

Synonyms

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

Product Information

Source	Purification
Baculovirus-Insect Cells	> 85% by SDS-PAGE and HPLC

Calculated MW	Observed MW
65.5 kDa	50-70 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 20% glycerol, 5 mM DTT, 100 mM Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

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 (Y340D, Y341D) Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser306-Phe648 (Y340D, Y341D)) of Human RAF1 (Accession #P04049) fused with a N-GST tag.

Bio-Activity

The activity of Raf-1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

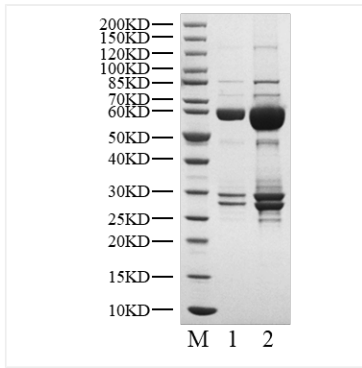
Storage

Store at -70°C. This product is stable at ≤ -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.

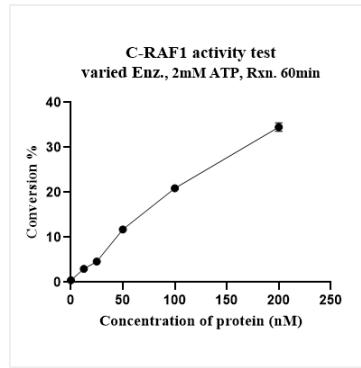
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human RAF1/c-Raf (Y340D, Y341D) Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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