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

Catalog No.: RP03350LQ

Sequence Information

Species
Human

Gene ID
5894

Swiss Prot
P04049

Tags
N-GST

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
65.5 kDa

Observed MW
50-70 kDa

Endotoxin
< 1 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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

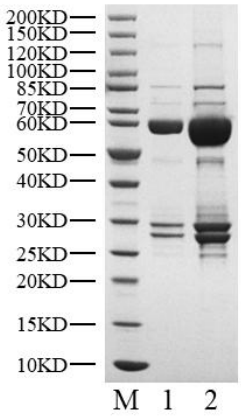
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

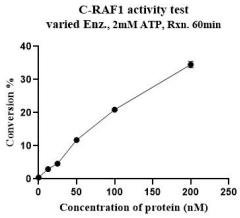
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Validation Data



Recombinant Human RAF1/c-Raf (Y340D, Y341D) Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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