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Datasheet for 009-001-GQ4

# rHuman MEK2 Protein

## Overview

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|---|---|
| **Description:** | MEK2 human recombinant protein - 009-001-GQ4 |
| **Item No.:** | 009-001-GQ4 |
| **Size:** | 10 µg |
| **Applications:** | SDS-PAGE |
| **Origin:** | Human |
| **Expressed in:** | Sf9 cells |

## Product Details

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| **Background:** | MEK2 recombinant protein was produced in Sf9 cells. Mitogen-activated protein kinase kinase 2, also known as MAP2K2, MEK, MEK2, MKK2, MEK-2, is an integral component of the MAP kinase cascade that regulates cell growth and differentiation. This pathway also plays a key role in synaptic plasticity in the brain. Activated MEK 1 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase. MEK1 and MEK2 are about 80% identical to each other, and nearly identical within the kinase domain. Recombinant MEK2 protein is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research. |
| **Synonyms:** | MAP2K2, MEK, MEK2, MKK2, PRKMK2 ,CFC4, MEK-2 recombinant protein |
| **Species of Origin:** | Human |
| **Expressed in:** | Sf9 cells |
| **Type:** | Recombinant Protein |

## Target Details

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| **Gene Name:** | MAP2K2 |
| **Purity/Specificity:** | MEK2 is a recombinant protein containing a polyhistidine tag expressed in Sf9. Analysis by SDS-PAGE resulted in a pattern consistent with purified MEK2 and was estimated to be greater than 90% pure. |
| **Relevant Links:** | • UniProtKB - P36507 |

## Application Details

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| **Tested Applications:** | SDS-PAGE |
| **Application Note:** | Human MEK2 recombinant protein has been tested in SDS-Page and is suitable as a control for polyclonal or monoclonal anti-MEK1 in immunological assays. For western blot use at 50 ng or less. For other assays concentration is user optimized. For a phosphorylated form of the protein co-expressed with constitutively active B-raf (V600E) see (p/n 009-001-GQ5) MEK2 pS222-pS226. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | 50ng |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Stabilizer:** | None |

## Shipping & Handling

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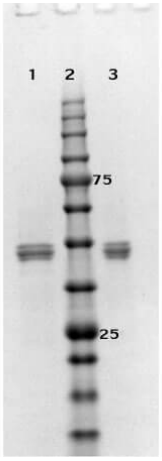
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




**SDS-PAGE**
SDS-PAGE results of MEK2 Recombinant Protein. Lane 1: reduced MEK2 protein. Lane 2: Opal Prestained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: non-reduced MEK2 protein. Load: 1µg. 4-20% Lonza SDS-PAGE; Coomassie Stained; BioRad ChemiDoc Imaged.

## Disclaimer