

## Datasheet for 009-001-GQ4

**rHuman MEK2 Protein****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	MAP2K2, MEK, MEK2, MKK2, PRKMK2 ,CFC4, MEK-2 recombinant protein
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	Sf9 cells
<b>Type:</b>	Recombinant Protein

**Target Details**

<b>Gene Name:</b>	MAP2K2
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P36507</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>WB:</b>	50ng

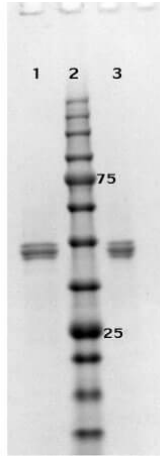
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	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: 1 $\mu$ g. 4-20% Lonza SDS-PAGE; Coomassie Stained; BioRad ChemiDoc Imaged.

**Disclaimer**

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