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# Recombinant Human ROS1/c-Ros Kinase

**Catalog No.: RP03380LQ** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| Human | 6098 | P08922 |

**Tags**
N-His

**Synonyms**
ROS1; MCF3; ROS; c-Ros; c-Ros-1; Proto-oncogene tyrosine-protein kinase ROS

## Product Information

| Source | Purification |
|---|---|
| Baculovirus-Insect Cells | ≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC. |

| Calculated MW | Observed MW |
|---|---|
| 36.3 kDa | 28-38 kDa |

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 150 mM NaCl, 5% glycerol, 2 mM TCEP. (pH 7.4). Contact us for customized product form or formulation.

**Reconstitution**
Please use running water to thaw it quickly.

## Contact


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## Background

ROS1 is a receptor tyrosine kinase (encoded by the gene ROS1) with structural similarity to the anaplastic lymphoma kinase (ALK) protein. This proto-oncogene, highly expressed in a variety of tumor cell lines, belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. The exact role of the ROS1 protein in normal development, as well as its normal physiologic ligand, have not been defined. Nonetheless, as gene rearrangement events involving ROS1 have been described in lung and other cancers, and since such tumors have been found to be remarkably responsive to small molecule tyrosine kinase inhibitors, interest in identifying ROS1 rearrangements as a therapeutic target in cancer has been increasing. Several drugs target ROS1 fusions in cancer, with varying levels of success; most of the drugs to date have been tested only for ROS1-positive non-small cell lung carcinoma (NSCLC). However, some clinical trials (like those for entrectinib, DS-6051b, and TPX-0005) accept patients with ROS1 cancer in any type of solid tumor.

## Basic Information

**Description**
Recombinant Human ROS1/c-Ros Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ile1934-Glu2232) of Human ROS1 (Accession #P08922) fused with a N-His tag.

**Bio-Activity**
The activity of ROS1 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**
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 ≤ -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.
Avoid repeated freeze/thaw cycles.

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

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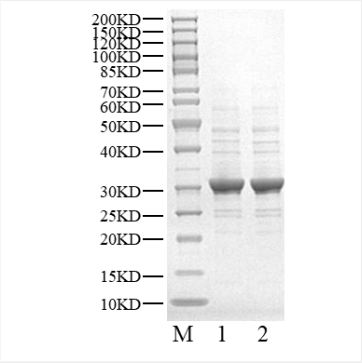
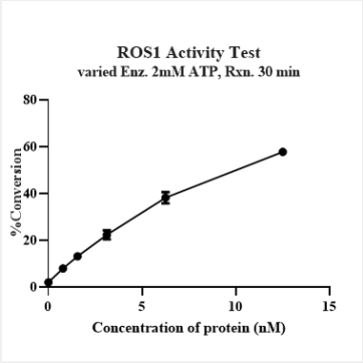
## Validation Data




Recombinant Human ROS1/c-Ros Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.

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