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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.
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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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