

# Active Recombinant Human ROS1 (F2004C) Protein, GST tagged

Cat. No. ROS1-06H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human ROS1 (F2004C) (1881-end) was expressed by baculovirus in Sf9 insect cells using an N terminal GST tag. The gene accession number is NM_002944.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	ROS1: 1881-end
<b>Description</b>	This proto-oncogene, highly-expressed in a variety of tumor cell lines, belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. The protein encoded by this gene is a type I integral membrane protein with tyrosine kinase activity. The protein may function as a growth or differentiation factor receptor.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, and 25% glycerol.
<b>Bio-activity</b>	100 nmol/min/mg
<b>Molecular Mass</b>	~82 kDa
<b>Purity</b>	>90%

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<b>Storage</b>	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Stability: 1 yr at –70 centigrade from date of shipment.
<b>Concentration</b>	0.1 µg/µL
<b>Shipping</b>	Dry ice
<b>Reference</b>	1. Charest, A. et al: Fusion of FIG to the receptor tyrosine kinase ROS in a glioblastoma with an interstitial del(6)(q21q21). Genes Chromosomes Cancer 37: 58-71, 2003. 2. Biscup, C. et al: Visualization of SHP-1-target interaction. J Cell Sci. 2004 Oct 1;117(Pt 21):5165-78. 3. Gendarme, S. et al: ROS-1 Fusions in Non-Small-Cell Lung Cancer: Evidence to Date. Curr. Oncol. 29(2):641-658, 2022.

## GENE INFORMATION

<b>Gene Name</b>	ROS1 ROS proto-oncogene 1, receptor tyrosine kinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	ROS1
<b>Synonyms</b>	ROS1; c-ros oncogene 1 , receptor tyrosine kinase; v ros avian UR2 sarcoma virus oncogene homolog 1 , v ros UR2 sarcoma virus oncogene homolog 1 (avian); proto-oncogene tyrosine-protein kinase ROS; c ros 1; MCF3; ROS; proto-oncogene c-Ros; proto-oncogene c-Ros-1; c-Ros receptor tyrosine kinase; receptor tyrosine kinase c-ros oncogene 1; v-ros UR2 sarcoma virus oncogene homolog 1; transmembrane tyrosine-specific protein kinase; v-ros avian UR2 sarcoma virus oncogene homolog 1; c-ros-1
<b>Gene ID</b>	6098

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mRNA Refseq	<a href="#">NM_002944</a>
Protein Refseq	<a href="#">NP_002935</a>
MIM	<a href="#">165020</a>
UniProt ID	<a href="#">P08922</a>

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