

Active Recombinant Human ROS1 (F2004I) Protein, GST tagged

Cat. No. ROS1-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ROS1 (F2004I) (1881-end) was expressed by baculovirus in Sf9 insect cells using an N terminal GST tag. The gene accession number is NM_002944.
Species	Human
Source	Insect Cells
ProteinLength	ROS1: 1881-end
Description	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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, and 25% glycerol.
Bio-activity	151 nmol/min/mg
Molecular Mass	~82 kDa
Purity	>90%
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller

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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.

Concentration 0.05 µg/µL

Shipping Dry ice

Reference

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

Gene Name ROS1 ROS proto-oncogene 1, receptor tyrosine kinase [Homo sapiens (human)]

Official Symbol ROS1

Synonyms

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

Gene ID 6098

mRNA Refseq NM_002944

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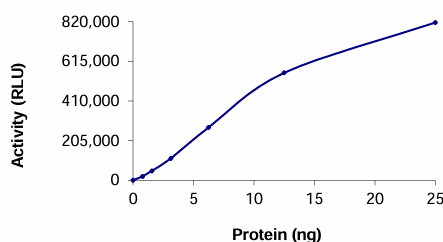
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Protein Refseq NP_002935

MIM 165020

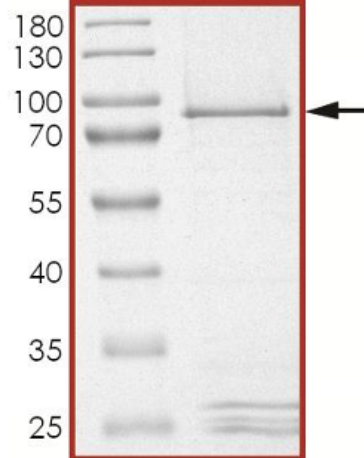
UniProt ID P08922

Specific Activity



The specific activity of ROS1 (F2004I) was determined to be 151 nmol/min/mg as per activity assay protocol.

Purity



The purity of ROS1 (F2004I) was determined to be >90% by densitometry.

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Observed MW ~82 kDa. Calculated MW ~80 kDa.

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