

# Active Recombinant Human ROS1 Protein, G2032R, GST tagged

Cat. No. ROS1-13H    Lot. No. (See product label)

## SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Human ROS, cytoplasmic domain [1883-2347(end) amino acids and G2032R of accession number NP_002935.2] was expressed as N-terminal GST-fusion protein (79 kDa) using baculovirus expression.                                                                                                                                          |
| Species          | Human                                                                                                                                                                                                                                                                                                                                |
| Source           | Insect Cells                                                                                                                                                                                                                                                                                                                         |
| ProteinLength    | 1883-2347 aa                                                                                                                                                                                                                                                                                                                         |
| 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             | 50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5                                                                                                                                                                                                                                                             |
| Molecular Mass   | 79 kDa                                                                                                                                                                                                                                                                                                                               |
| Storage          | Avoid repeating freeze-thaws.                                                                                                                                                                                                                                                                                                        |

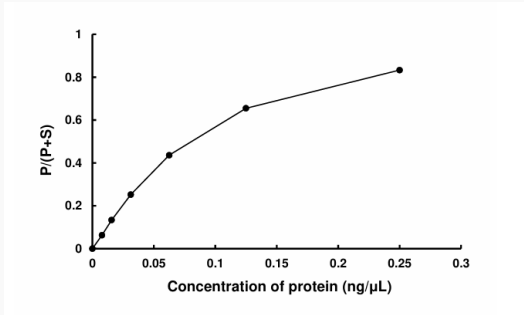
## GENE INFORMATION

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| Gene Name | ROS1 c-ros oncogene 1, receptor tyrosine kinase [ Homo sapiens (human) ] |
|-----------|--------------------------------------------------------------------------|

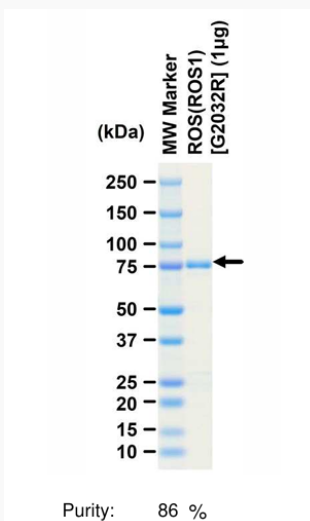
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| <b>Official Symbol</b>           | <b>ROS1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|---|---|------|-----|------|-----|------|------|------|------|------|------|
| <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>                   | <b>6098</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| <b>mRNA Refseq</b>               | <b>NM_002944</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| <b>Protein Refseq</b>            | <b>NP_002935</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| <b>MIM</b>                       | <b>165020</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| <b>UniProt ID</b>                | <b>P08922</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| <b>Activity</b>                  |  <table border="1"> <caption>Approximate data points from the ROS1 activity graph</caption> <thead> <tr> <th>Concentration of protein (ng/μL)</th> <th>P/(P+S)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>0.01</td><td>0.1</td></tr> <tr><td>0.02</td><td>0.2</td></tr> <tr><td>0.05</td><td>0.45</td></tr> <tr><td>0.12</td><td>0.65</td></tr> <tr><td>0.25</td><td>0.85</td></tr> </tbody> </table> | Concentration of protein (ng/μL) | P/(P+S) | 0 | 0 | 0.01 | 0.1 | 0.02 | 0.2 | 0.05 | 0.45 | 0.12 | 0.65 | 0.25 | 0.85 |
| Concentration of protein (ng/μL) | P/(P+S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0                                | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0.01                             | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0.02                             | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0.05                             | 0.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0.12                             | 0.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |
| 0.25                             | 0.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |         |   |   |      |     |      |     |      |      |      |      |      |      |

## SDS-PAGE and WB



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