

## Active Recombinant Human ROR2, GST-tagged

Cat. No. ROR2-30436TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ROR2 (427-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	427-end a.a.
<b>Description</b>	<p>The protein encoded by this gene is a receptor protein tyrosine kinase and type I transmembrane protein that belongs to the ROR subfamily of cell surface receptors. The protein may be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations in this gene can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	0.17 nmol/min/mg
<b>Molecular Mass</b>	~86 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 85%
<b>Applications</b>	Kinase Assay; Western Blot
<b>Storage</b>	Store product at -70oC. 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.
<b>Concentration</b>	0.1 ug/ul

## GENE INFORMATION

<b>Gene Name</b>	ROR2 receptor tyrosine kinase-like orphan receptor 2 [ Homo sapiens ]
<b>Official Symbol</b>	ROR2
<b>Synonyms</b>	ROR2; receptor tyrosine kinase-like orphan receptor 2; BDB; BDB1; NTRKR2; MGC163394; neurotrophic tyrosine kinase receptor-related 2; tyrosine-protein kinase transmembrane receptor ROR2; EC 2.7.10.1
<b>Gene ID</b>	4920
<b>mRNA Refseq</b>	NM_004560
<b>Protein Refseq</b>	NP_004551
<b>MIM</b>	602337
<b>UniProt ID</b>	Q01974
<b>Chromosome Location</b>	9q22

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<b>Pathway</b>	Cardiac Progenitor Differentiation; PCP/CE pathway; WNT5A-dependent internalization of FZD2, FZD5 and ROR2
<b>Function</b>	ATP binding; Wnt-protein binding; transmembrane receptor protein tyrosine kinase activity

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