

**ROS1 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP20883c****Specification****ROS1 Blocking Peptide (C-term) - Product Information**Primary Accession [P08922](#)**ROS1 Blocking Peptide (C-term) - Additional Information****Gene ID** 6098**Other Names**

Proto-oncogene tyrosine-protein kinase ROS, Proto-oncogene c-Ros, Proto-oncogene c-Ros-1, Receptor tyrosine kinase c-ros oncogene 1, c-Ros receptor tyrosine kinase, ROS1, MCF3, ROS

**Target/Specificity**

The synthetic peptide sequence is selected from aa 1744-1757 of HUMAN ROS1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ROS1 Blocking Peptide (C-term) - Protein Information****Name** ROS1**Synonyms** MCF3, ROS**Function**

Orphan receptor tyrosine kinase (RTK) that

**ROS1 Blocking Peptide (C-term) - Background**

Orphan receptor tyrosine kinase (RTK) that plays a role in epithelial cell differentiation and regionalization of the proximal epididymal epithelium. May activate several downstream signaling pathways related to cell differentiation, proliferation, growth and survival including the PI3 kinase-mTOR signaling pathway. Mediates the phosphorylation of PTPN11, an activator of this pathway. May also phosphorylate and activate the transcription factor STAT3 to control anchorage-independent cell growth. Mediates the phosphorylation and the activation of VAV3, a guanine nucleotide exchange factor regulating cell morphology. May activate other downstream signaling proteins including AKT1, MAPK1, MAPK3, IRS1 and PLCG2.

**ROS1 Blocking Peptide (C-term) - References**

Birchmeier C., et al. Proc. Natl. Acad. Sci. U.S.A. 87:4799-4803(1990).  
Mungall A.J., et al. Nature 425:805-811(2003).  
Matsushime H., et al. Mol. Cell. Biol. 6:3000-3004(1986).  
Birchmeier C., et al. Mol. Cell. Biol. 6:3109-3116(1986).  
Watkins D., et al. Cancer Genet. Cytogenet. 72:130-136(1994).

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**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed in brain. Expression is increased in primary gliomas.

**ROS1 Blocking Peptide (C-term) -  
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)