# Recombinant Mouse SR-PSOX (CXCL16)

**Cat No:HR2R2218**

For research use only

## Overview

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| Quantity | 1.0 ?g |
| Gene Symbol | CXCL16 |
| Gene ID | 66102 |
| Accession | Q8BSU2 |
| Alternative Name | Scavenger receptor for phosphatidylserine and oxidized low density lipoprotein, SR-PSOX, Small-inducible cytokine B16, Transmembrane chemokine CXCL16, C-X-C motif chemokine 16, Srpsox |
| Species | Mouse |
| Source | E. coli |
| Description | CXCL16, a newly discovered CXC chemokine, exists both in a transmembrane and a soluble form. Membrane-bound CXCL16 is expressed by antigen-presenting cells such as monocytes, macrophages, B cells, and dendritic cells in the T cell zone of lymph nodes. Soluble CXCL16 can be generated by constitutive cleavage from the cell membrane and further enhanced by cell stimulation with phorbol esters. Soluble CXCL16 has been shown to induce chemotaxis of Th1, Tc1, and natural killer cells, which express the functional CXCR6 receptor. CXCL16 has also been reported as a novel angiogenic factor for human umbilical vein endothelial cells. Moreover, CXCL16 cDNA was shown to be identical to a novel scavenger receptor that binds phosphatidylserine and oxidized lipoprotein. Recently, expression of CXCL16 and/or CXCR6 was shown in nasopharyngeal carcinomas, gliomas, and rectal cancer. Through a cytokine antibody array, we reported that CXCL16 protein production was increased in aggressive prostate cancer cells compared with the less aggressive prostate cancer cells or benign prostate cells. |
| Functions | Determined by its ability to chemoattract mouse lymphocytes using a concentration range of 2.0-40.0 ng/mL. |
| Formulation | Recombinant CXCL5 was lyophilized from a 0.2 ?m filtered 20 mM PB,100 mM NaCl solution pH 7.5. |
| Solubility | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers. |
| Appearance | Lyophilized Powder |
| Molecular Weight | 20 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | <1.0 EU/?g of recombinant protein as determined by the LAL method. |
| Shipping Condition | Ambient Temperature |

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| Storage Condition | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |

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