

# Recombinant Human R-spondin 1

<b>CODE No.</b>	J2-004
<b>FORM</b>	lyophilized
<b>QUANTITY</b>	50 µg
<b>DESCRIPTION</b>	<p>Recombinant protein of human R-spondin 1 (21-146 aa) expressed in <i>E. coli</i>. This product is a bioactive domain consisting of 21 to 146 amino acids which contain two adjacent cysteine-rich furin-like domains (Fu1 and Fu2). Fu1 binds to the extracellular domain of ZNRF3<sup>*1</sup> and RNF43<sup>*2</sup>, and Fu2 binds to the extracellular domain of LGR4/5/6<sup>*3,1)</sup></p> <p><small>*1 zinc and ring finger 3, *2 ring finger protein 43, *3 leucine-rich repeat-containing G-protein coupled receptors 4/5/6</small></p>
<b>MOLECULARWEIGHT</b>	<p>13.9 kDa The molecular weight was calculated from the amino acid sequence.</p>
<b>PURITY</b>	> 90% by SDS-PAGE
<b>ENDOTOXIN LEVEL</b>	< 0.1 EU/µg by the LAL assay.
<b>FORMULATION</b>	Lyophilized from PBS
<b>RECONSTITUTION</b>	Reconstitute with 250 µL of ice-cold distilled water on ice.
<b>STORAGE</b>	Store at -20°C or below.
<b>EXPIRATION</b>	Lyophilized recombinant human R-spondin 1 is stable for 24 months from the date of manufacture when store at -20°C or below. After reconstitution, it can be stable for 1 week at 4°C. Or, prepare appropriate aliquots and freeze them at -80°C using low retention tube. Avoid repeated freezing and thawing.
<b>DIRECTION for USE</b>	As a Wnt signal activation
<b>REFERENCE</b>	<p>1) Gui-Xun, Shi. <i>et al.</i> The role of R-spondins and their receptors in bone metabolism. <i>Progress in biophysics and molecular biology</i>. 2016, vol. 122, p. 93 [PMID: <a href="https://pubmed.ncbi.nlm.nih.gov/27237581/">27237581</a>]</p>

For more information, please visit our web site <https://ruo.mbl.co.jp/>.

When culturing organoids, or stem cells, or other tissues, if you are to use this product in combination with other factor or factors (hereunder factors), a third party may have a patent on the use or other application of the factors concerned. Regarding to this product, we do not offer any non-infringement warranty when used or otherwise applied in combination with other factors. Therefore, if you intend to use this product in combination with other factors, please check with your organization's division responsible for intellectual property rights or your research agency before using this product.