

# Recombinant Human R-spondin 1

<b>CODE No.</b>	J2-004
<b>FORM</b>	lyophilized
<b>QUANTITY</b>	50 µg
<b>DESCRIPTION</b>	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>  <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>
<b>MOLECULARWEIGHT</b>	13.9 kDa The molecular weight was calculated from the amino acid sequence.
<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>	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> ]

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