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**Product Data Sheet**


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Product Name: RSPO3 Human  
 Cat. No.: GP24450  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	R-spondin-3; Protein with TSP type-1 repeat; hPWTSR; Roof plate-specific spondin-3; hRspo3; Thrombospondin type-1 domain-containing protein 2; RSPO3; PWTSR; THSD2; THSD2; CRISTIN1.		
Amino Acid Sequence	QNASRGRRQR RMHPNVSQGC QGGCATCSDY NGCLSCKPRL FFALERIGMK QIGVCLSSCP SGYYGTRYPD INKCTKCKAD CDTCFNKNFC TKCKSGFYLN LGKCLDNCPE GLEANNHTME CVSIVHCEVS EWNPWSPCTK KGKTCGFKRG TETRVREIIQ HPSAKGNLCP PTNETRKCTVDDIEGRMDEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMIS RTP EVTCVVVDVSHEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKALPAPIEKTIS KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQPENNYKTTTPV LQSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGKHHHHHH.		
Solubility	It is recommended to quick spin followed by reconstitution of RSPO3 in PBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	RSPO3 was lyophilized from a 0.2µm filtered solution in 20mM PB, and 150mM NaCl pH-7.2.		

**Introduction**

R-spondin-3 (RSPO3) belongs to the thrombospondin type 1 repeat supergene family. RSPO3 is a secreted protein which is widely expressed in many tissues. RSPO3 contains 2 Furin-like repeats which have been found in various eukaryotic proteins involved in the mechanism of signal transduction by receptor tyrosine kinases, and one TSP type-1 domain. RSPO3 acts as an activator of the beta-catenin signaling cascade, initiating TCF-dependent gene activation.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized RSPO3 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution RSPO3 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

Recombinant Human R-Spondin-3 produced in HEK293 cells is a polypeptide chain starting at amino acid Gln at position 22 to amino acid Val at position 201, fused to an FC, 6 x His-tag at C-terminus, containing a total of 498 amino acids and having a Mw of 47.9 kDa. The protein migrates at 61kDa on SDS-PAGE. RSPO3 is a truncated protein that lacks amino acid Gln at position 201 to amino acid H at position 272 and purified by proprietary chromatographic techniques.

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