

Recombinant Mouse RSPO1 (C-Flag)

Catalog No : PMK2216RP

Known As: RSPO1; R-spondin1; RP11-566C13.1; CRISTIN3; FLJ40906; RSPO Rspo1; R-spondin; Rspondin; RP23-325M14.2; Roof plate-specific spondin-1

PROPERTIES

Description	Recombinant Mouse R-spondin-1 is produced by our Mammalian expression system and the target gene encoding Ser21-Gln265 is expressed with a Flag tag at C-terminus.
Accession	NP 619624.2
Formulation	Supplied as a 0.2 μ m filtered solution of PBS, pH7.4.
Size	10 μ g/50 μ g/500 μ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ μ g as determined by LAL test.
Predicted Mol Mass	28.1 KDa
Apparent Mol Mass	35-55 KDa, reducing conditions
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Store at $\leq -70^{\circ}\text{C}$, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Background	RSPO1 is a secreted protein, containing 2 FU(furin-like) repeats and 1 TSP type-1 domain and belonging to the R-spondin family. RSPO1 is required for the early development of gonads, regardless of sex. It has been found in mice only eleven days after fertilization. To induce cell proliferation, it acts synergistically with WNT4. They help stabilize β catenin, which activates downstream targets. RSPO1 is necessary in female sex development. It augments the WNT/ β catenin pathway to oppose male sex development. In critical gonadal stages, between six and nine weeks after fertilization, the ovaries upregulate it while the testes downregulate it. RSPO1 can potentially aid in the treatment of mucositis, which is characterized by inflammation of the oral cavity. This unfortunate condition often accompanies chemotherapy and radiation in cancer patients with head and neck tumors.

NOTE: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.