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Product Datasheet

Recombinant Human RSPO1 (C-6His) EBT-EPT157

Article Name	Recombinant Human RSPO1 (C-6His)
Biozol Catalog Number	EBT-EPT157
Supplier Catalog Number	EPT157
Alternative Catalog Number	EBT-EPT157-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Human R-spondin-1 is produced by our Mammalian expression system and the target gene encoding Ser21-Ala263 is expressed with a 6His tag at the C-terminus....
Molecular Weight	Molecular weight: 27.8 KDa. Apparent molecular weight: 40 KDa, reducing conditions
UniProt	Q2MKA7
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Endotoxin: Less than 0.01 EU/µg as determined by LAL test. Biological activity: Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is 4.06 ng/ml. 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 beta catenin, which activates downstream targets. RSPO1 is necessary in female sex development. It augments the WNT/beta 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