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R001 RSPO3-Fc Fusion-Protein Conditioned medium

Product name:	RSPO3-Fc Fusion protein Conditioned medium
Source:	Recombinant organoid growth factor, Produced via rPEX [®] technology in HEK293E cell line
Purification:	Sterile filtration
Formulation:	Conditioned medium
Storage	< -20 °C

Available Product Sizes

Catalog number	Size
R001 – 100 ml	100 ml
R001 – 200 ml	200 ml
R001 – 500 ml	500 ml
Bulk	On request

Description

The Wnt signaling pathway is essential for embryonic development, stem cell differentiation and regeneration of injured tissues. Wnts hetero-dimerize Frizzled (Fzd) family receptors and their co-receptors Lrp5/6, triggering downstream signaling pathways including the canonical β -catenin cascade, and resulting in expression of genes regulating cell development. R-Spondins regulate Wnt/ beta -catenin by competing with the Wnt antagonist DKK-1 for binding to the Wnt co-receptors LRP-6 and Kremen, reducing their DKK-1-mediated. RSPO3-Fc Fusion-protein supports long-term expansion of multiple different types of organoids, including pancreas, stomach, colon and liver organoids¹

Use, Storage and stability

RSPO3-Fc fusion protein has been successfully used for pancreas, stomach, colon and liver organoids¹ and kidney organoids². The working concentration of the product in organoid cultures should be determined experimentally. As a starting concentration 2 % can be used. The product should be stored at - 80 °C (stable for at least 1.5 year). After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months) or at 4 °C for short time storage.

Precaution

1. For professional use only.
2. There might be a reduced pressure in the vial. Before opening the vial, equilibrate at 4 °C or ambient temperature. Briefly spin to settle the contents at the bottom of the vial and carefully open the vial.
3. As with any product derived from biological sources, proper handling procedures should be used.
4. The product can be used in various applications and settings. The user should evaluate the fitness-of-use.

References

1. Surrogate Wnt agonists that phenocopy canonical Wnt/ β -catenin signaling, Janda and Garcia et al., Nature. 2017 May 11; 545(7653): 234–237 (doi:10.1038/nature22306). <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM2879360>
2. Snake Venom Gland Organoids, Y. Post, H. Clevers et al, Cell, 2020, <https://doi.org/10.1016/j.cell.2019.11.038>

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

The product is not for use in humans.

The product can only be used for internal research and development.

The product cannot be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties). The product cannot be resold.

Please contact bd@immunoprecise.com to inquire about further information.

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