

N002 Noggin-Fc Fusion-Protein Conditioned medium

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| Product name: | Noggin-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

Noggin binds and inactivates members of the transforming growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members of the TGF-beta superfamily, this protein may have a principal role in creating morphogenic gradients. The protein appears to have pleiotropic effect, both early in development as well as in later stages. It was originally isolated from *Xenopus* based on its ability to restore normal dorsal-ventral body axis in embryos that had been artificially ventralized by UV treatment. The results of the mouse knockout of the ortholog suggest that it is involved in numerous developmental processes, such as neural tube fusion and joint formation.

Use, Storage and stability

Noggin-Fc fusion protein has been successfully used for Intestinal¹, snake venom glands², lung³, pancreas³, ovarian, and other organoids. 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 2 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. Identification of Enteroendocrine Regulators by Real-Time Single-Cell Differentiation Mapping, H. Gehart, and H. Clevers et al, Cell, 2019, <https://doi.org/10.1016/j.cell.2018.12.029>
2. Snake Venom Gland Organoids, Y. Post, H. Clevers et al, Cell, 2020, <https://doi.org/10.1016/j.cell.2019.11.038>
3. OrBITS: label-free and time-lapse monitoring of patient derived organoids for advanced drug screening, C. Debe, A. Lin et al, Cellular Oncology, <https://doi.org/10.1007/s13402-022-00750-0>

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@ipatherapeutics.com to inquire about further information.

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