BioSpectrum
the business of Bi
24 years of leveraging the business of Bio
www.biospectrumindia.co

Thermo Fisher introduces next-generation expression system to expand protein research

26 August 2025 | News

Offers researchers access to new protein targets by overcoming current challenges in expressing complex proteins with low or no yield



Thermo Fisher Scientific has introduced the Gibco™ Expi293™ PRO Expression System, a next-generation HEK293 transient expression system designed to deliver exceptional protein yields for a wider variety of proteins, including low-yield and challenging proteins, with higher throughput and speed.

HEK293 cells are the most commonly used mammalian cell host for protein expression. They are utilised in a variety of research applications, including drug discovery, structural biology, recombinant vaccines, and cell and gene therapies. For researchers working in these fields, producing increasingly complex proteins with higher yields and higher throughput is critical to accelerating breakthroughs in protein research and therapeutic drug development.

The Expi293 PRO Expression System offers exceptional yields, speeds and efficiencies for a wide range of proteins, enabling the expression of proteins that were previously unable to be expressed.

The Expi293 PRO Expression System is composed of a new, clonally derived HEK293 cell line, Gibco Expi293 PRO Cells, which can produce difficult-to-express proteins and support protein production on a milliliter to multi-liter scale. Additionally, the system includes Gibco Expi293 Medium, an optimized culture medium, and Gibco Expi293 PRO Transfection Kit, which enables high-density cell transfection. It also includes components and protocols designed for easy incorporation into automated workflows and a streamlined protocol to minimize hands-on time and maximise the number of transfections that can be performed per week.