

CHOFlow®

CHO Expression Platform for ADCC Enhanced Antibodies and Beyond

CHOFlow® is our own glycoengineered cell line for afucosylated mAbs and other biopharmaceuticals.

CHOFlow® unifies excellent productivity rates (> 5 g/L) and exceptionally stable and robust production processes of our CHOnamite® host cell line with a proven genetic FUT8 knock-out (KO) glyco-optimization strategy. This allows FyoniBio to develop cell lines that produce our customer's mAb candidates with enhanced ADCC effector function to significantly improve the therapeutic efficacy of the mAbs.

The core fucosylation of mAbs can be considered as a prominent critical quality attribute (CQA) as it directly affects the affinity of the mAb to the FcyRIIIa receptor on natural killer cells and thus is influencing the biological activity through immune effector functions. A reduction of mAb's core fucose directly increases binding affinity to the FcyRIIIa receptor and thereby enhancing the ADCC activity leading to increased killing of target cells.

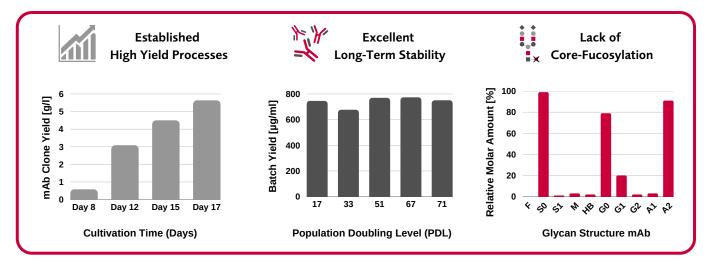


CHOFlow®: Enhanced Potency Meets Outstanding Manufacturability

- Glyco-engineered CHO-K1 FUT8 KO cell line producing mAbs lacking the 1,6 linked fucose on N-glycans to enhance ADCC effector function
- Excellent productivities of > 5 g/L in FyoniBio's platform fed-batch production processes while minimizing batch-to-batch variations
- Maintains outstanding stability over more than 70 population doublings
- CHOFlow® is ideal for production of afucosylated mAbs to significantly improve the therapeutic efficacy in cancer immune therapy



Explore Manifold Possibilities of Our CHO Flow® Cell Line

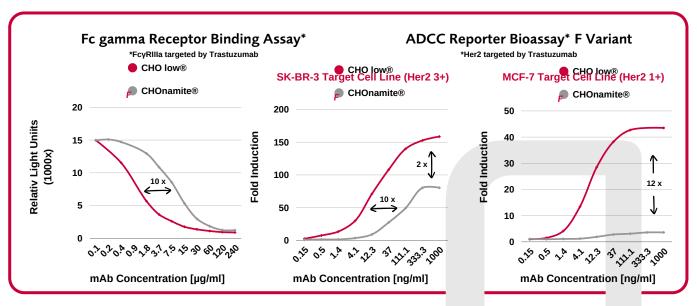


CHOFlow® for Robust and High Production of Afucosylated mAbs

- Excellent productivity of > 5 g/L in our standard fedbatch process
- Proven robust stability over more than 70 population doublings to meet GMP requirements
- mAb N-glycans lacking core fucose while the other Nglycan structures are not affected

CHOFlow® Improves FcyRIIIa Binding and mAb Potency

- Significantly improved ADCC due to enhanced binding affinity to FcyRIIIa by factor 10
- Increased potency and therapeutic efficacy
- Especially suited for low receptor density target cells and the low affinity variant of the FcyRIIIa (F variant)
- Allows the reduction of treatment dosage requirements at maintaining the therapeutic effect



The FyoniBio Team Is All Set to Bring Your CMC Project to the Next Level!

FyoniBio offers high quality ISO-9001 compliant services. Fore more information please contact us.





