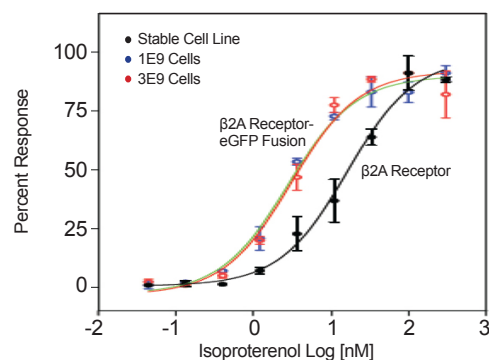


Large Volume, Rapid Expression of GPCRs

Expression of GPCRs for use in Cell-based Assays

Spending too much time and money creating stable cell lines for GPCR cell-based assays? Looking to rapidly produce a large volume of transfected cells? The MaxCyte STX[®] Scalable Transfection System uses flow electroporation to rapidly and reproducibly transfect up to 1E10 cells in less than thirty minutes. It produces cells with high levels of cell viability, transfection efficiency, and cell membrane integrity. Whether used immediately or cryopreserved for future use, transfected cells produce quality results in GPCR functional assays such as cAMP and calcium flux assays. Results are comparable to stable cell lines, yet assays can be developed and conducted in just a fraction of the time.

GPCR Activation - cAMP Assay



β 2 Adrenergic Receptor Transfection: cAMP Assay Performance Comparison to Stable Cell Line. CHO K1 cells were transfected with DNA encoding a β 2 adrenergic receptor:eGFP fusion protein. Transiently transfected cells and stable CHO cells expressing the non-modified β 2A receptor were stimulated with isoproterenol and functional responses assessed using a commercially available cAMP kit.

MaxCyte Electroporation Features

- Reduces reliance on stable cell lines
- Expresses functional GPCRs with proven performance in cAMP, FLIPR[®], and other high throughput assays
- Compatible with primary cells, stem cells or other difficult-to-transfect cell lines
- Superior performance with reduced day-to-day assay variability
- Fully scalable, able to transfect 5E5 cells in seconds up to 1E10 cells in < 30 minutes

Contact MaxCyte to achieve your GPCR expression needs using the transfection method trusted by leading pharmaceutical companies.