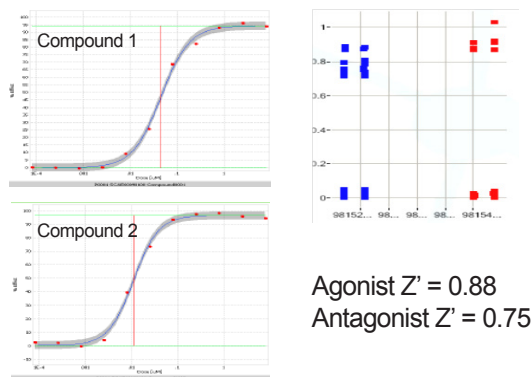


Expression of Multi-subunit, Functional Ion Channels

Large Scale Transient Transfection for Cell-based Assays

Streamline your ion channel screening using the power of MaxCyte Scalable Transfection! MaxCyte Transfection Systems use electroporation for the transient expression of functional multi-subunit ion channels. MaxCyte flow electroporation rapidly produces cells with high viability, transfection efficiency, and cell membrane integrity. Whether used immediately or cryopreserved for future use, transfected cells produce superior performance in downstream cellular assays such as calcium flux and automated electrophysiology assays. Results are comparable to stable cell lines, yet assays can be developed in just a fraction of the time.

High Throughput, Human TRPV1 Screening



High Z' Factors for TRPV1 Screening of Transiently Transfected, Cryopreserved Cells. Cells were transiently transfected with an expression plasmid (2 μ g/1E6 cells) for human TRPV1 and the cells were cryopreserved. Transfected cells were assayed immediately post thaw. Cells were incubated with a known agonist and antagonist and responses measured. Z' factors were determined.

MaxCyte Electroporation Features

- Express multi-subunit, intractable, or toxic ion channels
- Compatible with potassium, calcium, chloride, sodium, and non-selective cation channels
- Reduce the reliance on stable cell lines
- Proven performance in ion channel assays including FLIPR®, IonWorks® Quattro™, PatchXpress®, QPatch, & other platforms
- Fully scalable, able to transfect 5E5 cells in seconds up to 1E10 cells in < 30 minutes

Contact MaxCyte to achieve your Ion Channel expression goals using the transfection method trusted by leading pharmaceutical companies.


MaxCyte

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