

Smac.4M® cells are single, spindle-shaped, primary-like smooth muscle cells derived from mouse ES cells. They are a homogeneous source of cells that are 95 % pure and express smooth muscle cell-specific markers like calponin, transgelin, desmin, acta2, and myh11. Presence of all relevant ion channels has been demonstrated in Smac.4M® cells. Contraction of Smac.4M® cells can be induced by angiotensin II, endothelin I, and potassium chloride. Smac.4M® cells express a red fluorescent reporter protein and are available in different formats. They are useful to pharmaceutical industry and to academia for drug profiling and target discovery, as well as for prediction of organ-specific toxicity. Smac.4M® cells display very little batch-to-batch variation and are easily integrated into high-content screening assays.

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