

DNA transfection

UptiFectin™-ON DNA transfection reagent

UptiFectin™-ON DNA transfection reagent is a novel synthetic molecule derivative from natural compounds and specially designed to provide the best transfection efficiency and protein expression level, in a broad range of cell types. Achieve high efficiency with UptiFectin™-ON in almost any cell lines, even hard to transfect cells such as primary cells and embryonic stem cells.

- New patented chemical entity (synthetic derivatives of natural compound)
- Particularly suitable for stem cells and suspension cell lines
- Outstanding transfection efficiency for a wide variety of cell lines
- More efficient than leader products
- Transfection in the presence of serum. No transfection complex removal needed
- Excellent reproducibility (non-liposomal reagent)
- No cytotoxicity
- Storage at 2-8°C. No need to keep complexes on ice during transfection

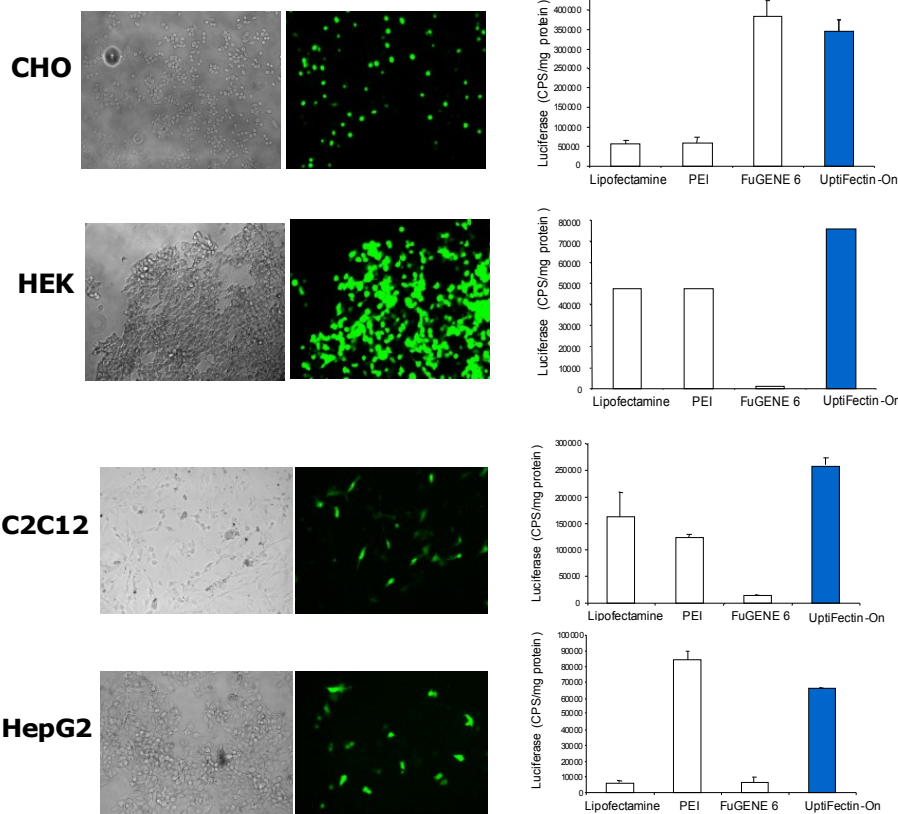
New supramolecular organization

UptiFectin™-ON transfection reagent combine with DNA molecules to form novel discrete compact mushroom-like structure with a size in the 200 nm range. This kind of complexes leads to an optimal DNA delivery into the cells.

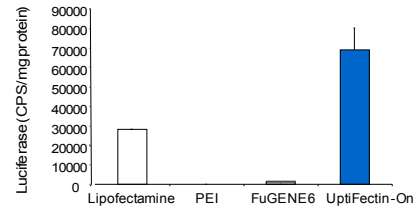
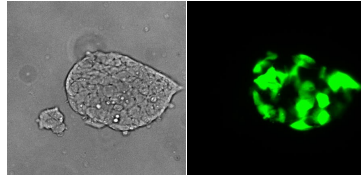
High transfection efficiency in almost any cells

Select the next-generation reagent that has been used successfully to transfect cell types derived from diverse species and tissues, including:

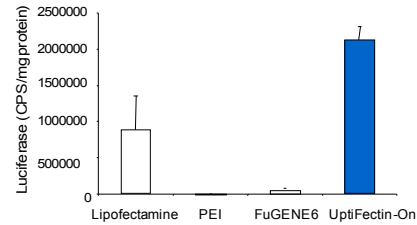
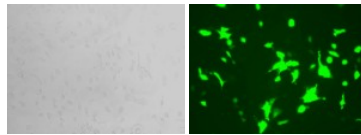
- Embryonic stem cells
- Cancer cell lines
- Adherent and suspension cells
- Established cell lines
- Primary cells



Embryonic stem cells



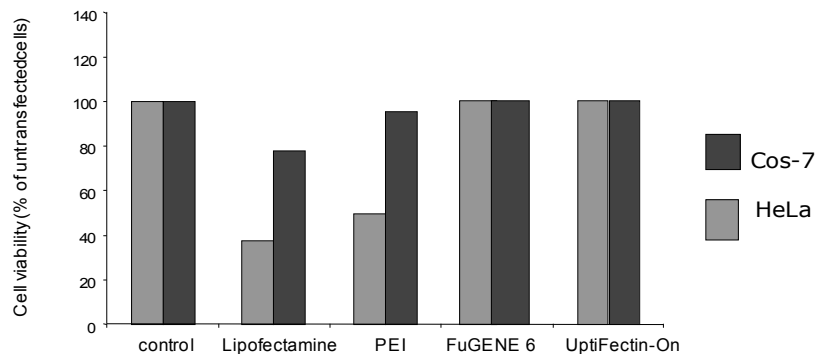
Mesenchymal stem cells



Pictures: Fluorescent microscopy visualisation of cells transfected with 0.5 µg DNA encoding the fluorescent protein GFP using the UptiFectin™-ON reagent. The transfected cells were observed 24 hours after transfection using a FITC filter to visualise GFP fluorescence (right) or by light microscopy (left) to visualise cell morphology.

Graphs: Luciferase activity 24 hours after transfection of cells with 0.5 µg DNA encoding luciferase complexed with UptiFectin™-ON compared to that obtained with competitor reagents.

No cytotoxicity detected with cell viability MTT assay kit



UptiFectin™-ON DNA transfection reagent

DW9020	0,5 ml	375 transfections in 24-well plates
DW9021	4 ml	3000 transfections in 24-well plates
DW902E	100 µl	75 transfections in 24-well plates

RNA transfection

UptiFectin™-OFF siRNA transfection reagent

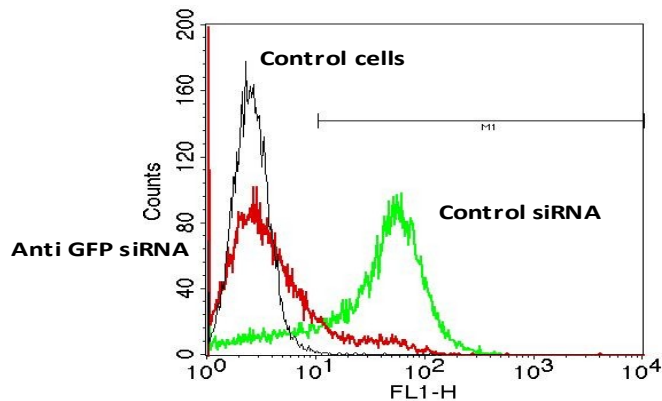
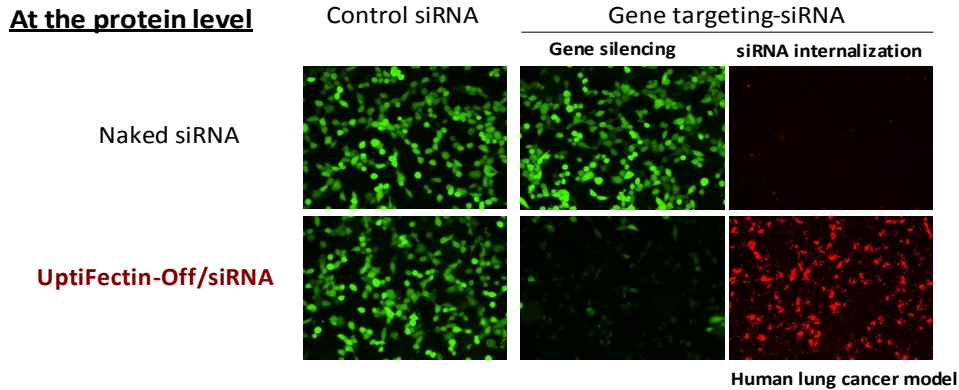
UptiFectin™-OFF siRNA transfection reagent is a novel synthetic derivative of natural compound associated with high transfection level and minimal off-target effects.

- New patented chemical entity (synthetic derivatives of natural compound) developed by a Nobel Laureate team
- High efficient gene silencing both at mRNA and protein level using picomole amounts
- Long lasting silencing effect (up to 5 days)
- More efficient than other reagents tested

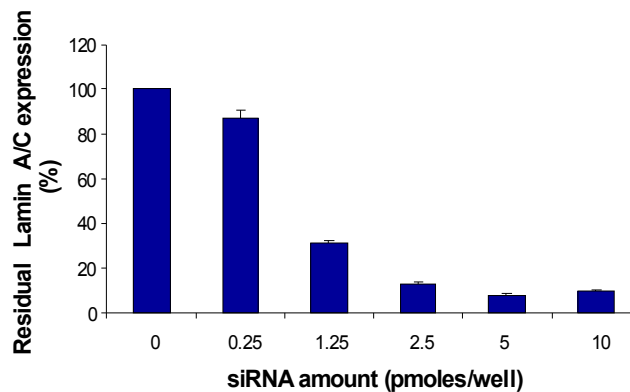
- Efficient gene silencing in the presence of serum
- Very low cytotoxicity
- Reverse transfection protocol for high-throughput studies
- Excellent reproducibility
- Storage at 2-8°C. No need to keep complexes on ice during transfection

High transfection efficiency allowing low siRNA concentration

siRNA concentrations above to 100 nM can lead to non-specific changes in gene expression (off-target effects) in mammalian cultured cells. Reducing the amount of siRNAs used for transfections down to 1-20 nM minimize these non-specific effects. The powerful UptiFectin™-OFF leads to a high release of siRNA within the cell and allows using low concentration of siRNA, allowing researchers to choose the siRNA concentration they wish to use. It can be used to transfect a wide range of cell types such as HeLa, HEK 293, HepG2, MCF-7, HUVEC, HaCaT cells and many others.

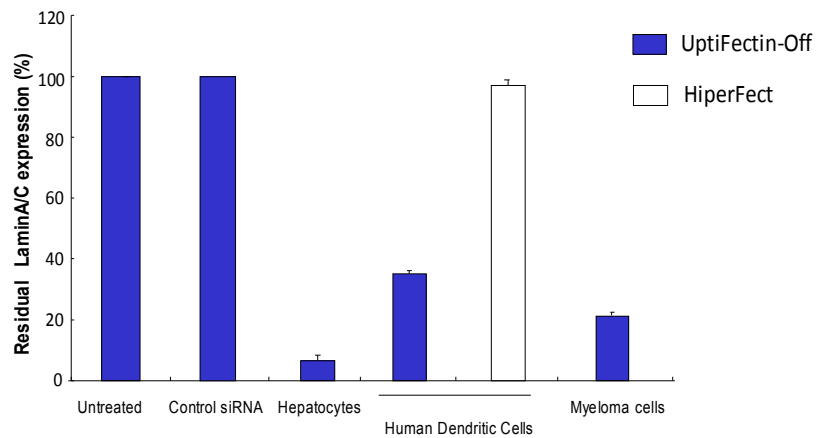


91.2% of cells are undergoing RNAi response



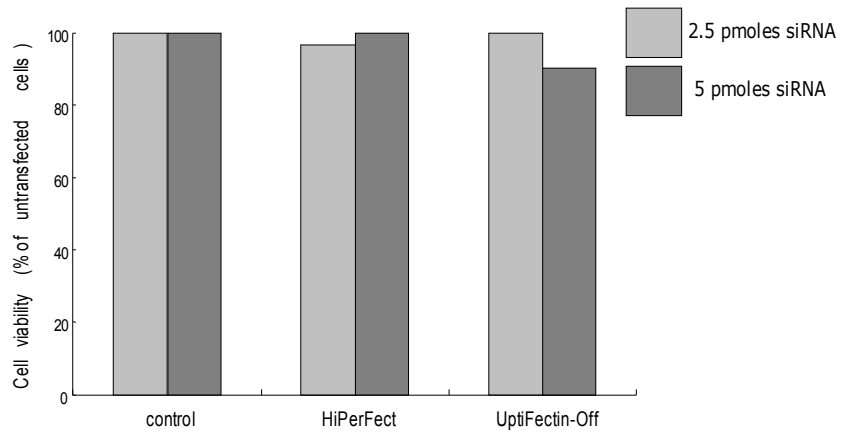
High efficiency using picomole siRNA amount

High efficiency in comparison with other siRNA transfection reagents



High efficacy in primary and suspension cells

No cytotoxicity detected with cell viability MTT assay kit



Gene expression profiles : No difference in LaminA/C, HPRT1, GAPDH between untransfected cells and cells transfected with negative control siRNA

UptiFectin™-OFF siRNA transfection reagent

DW9030 0,5 ml 250 transfections

DW9031 4,0 ml 2000 transfections

DW903E 100 µl 50 transfections