

Easy and Efficient Transfection of Neuronal Cells

NeuroPORTER™ Transfection reagent

Transfecting neuronal cells, especially dissociated cultures of primary neurons, can be a difficult task. That's why we developed the NeuroPORTER™ Transfection Reagent. It is the first transfection reagent specifically screened and optimized for efficient transfection of neuronal cells including primary neurons, neuronal cell lines, and glial cells.

Innovative Formulation.

NeuroPORTER is a new cationic lipid reagent that has been selected from a variety of large lipid libraries based on the following criteria:

- Superior transfection efficiency in primary neurons, cultured neuronal cell lines, and glial cell lines
- Minimized cytotoxicity

The formulation of NeuroPORTER was further optimized to allow a simplified protocol, serum compatibility and stability. This reagent has been rigorously tested in multiple cell types to ensure the highest transfection efficiency (percentage of cells expressing transgene) and activity (transgene product activity in cell extracts).

Neuron Transfection Made Easy

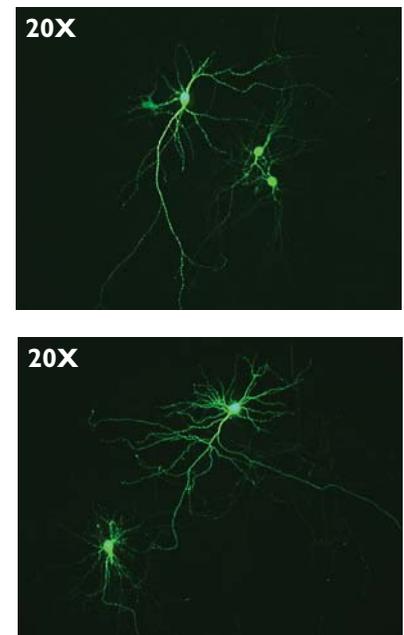
NeuroPORTER Transfection Reagent eliminates the hassles associated with viral transfection. Simply mix DNA with the NeuroPORTER reagent and you are

ready to transfect neurons. NeuroPORTER reagent is compatible with serum so there is no need to change medium during transfection and there is no need to remove NeuroPORTER after transfection. For your convenience, three cell-type specific protocols designed for primary neurons, neuronal cell lines, and glial cell lines are provided in a comprehensive manual. In addition, detailed optimization examples are outlined. With NeuroPORTER reagent, neuronal transfection can not be easier.

Superior Results

Cultured primary neurons are difficult to transfect because they are post-mitotic and very sensitive to culture conditions. Figure 1 demonstrates the efficient transfection of a plasmid expressing GFP (green fluorescent protein) into a primary culture of rat cortical neurons. After the cells are transfected, there are no signs of neurodegeneration or withdrawal of neurites that are frequently observed when using calcium phosphate and other commercially available transfection reagents. In addition, we have compared NeuroPORTER reagent with other transfection reagents using human NT2 neuron precursor and C6 glioma cell lines. Figure 2 shows the superior transfection and gene

Figure 1. Transfection of plasmid expressing GFP into rat primary cortical neurons



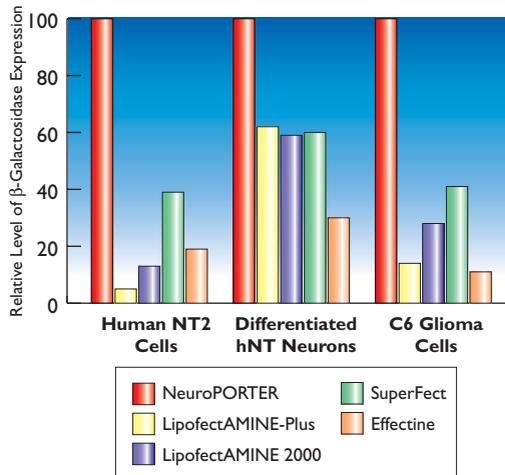
Rat primary cortical neuron cells were grown on cover slip in 24 well plates. 0.5 µg of gWIZ/GFP vector (GTS Cat. No. P040400) were transfected into these cells with 2.5 µl of NeuroPORTER reagent. Images were taken 48 hours post transfection.

expression results obtained with the NeuroPORTER reagent.

Figure 2. β -galactosidase expression comparison in NT-2 and C6 cell lines

Experience Efficient Neuronal Transfection.

No more hassles with viruses. No more frustrations with mediocre transfection results. Experience easy and efficient transfection with NeuroPORTER reagent. Order NeuroPORTER reagent today and start getting great neuronal transfection results.



Product	Quantity	Catalog no.	Price
NeuroPORTER™ Transfection Reagent	1.5 ml (75-300 rxn.)	T400150	\$275
	5x1.5 ml (375-1500 rxn.)	T400750	\$1165

*Each transfection is for delivering 2 μ g of DNA in 6-well plates.

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