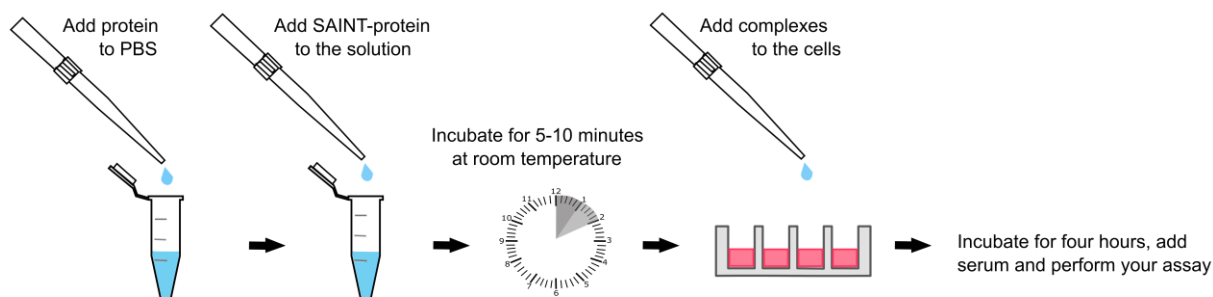


# SAINT-PROTEIN PROTEIN DELIVERY SYSTEM



This protocol is provided for transfections using SAINT-Protein (Cat. No. SP-3004-01, SP-3004-02, SP-3004-04). The amounts in this protocol are for a single well of a 24-well plate. Please see Table 1 at the bottom of this page for other formats.

## General transfection protocol



1. Prepare cells for transfection.
  - **Adherent cells:** one day prior to the transfection, plate cells in 0.5 ml growth medium so that the cells will be 80% confluent at the time of transfection. Immediately prior to transfection, replace growth medium with the same medium without serum (serum-free medium).
  - **Suspension cells:** on the day of transfection, plate cells in 0.5 ml of serum-free medium at approximately 80% of their maximum density.
2. Allow the vial of SAINT-Protein to reach room temperature.
3. Vortex the SAINT-Protein thoroughly, for approximately 30 seconds.
4. Prepare complexes using a protein ( $\mu\text{g}$ ) to SAINT-Protein ( $\mu\text{l}$ ) ratio of 1:10. For each transfection sample, prepare complexes as follows:
  - a. Dilute 2  $\mu\text{g}$  protein in 50  $\mu\text{l}$  PBS.
  - b. Add 20  $\mu\text{l}$  SAINT-Protein into the protein/PBS solution and resuspend gently.
5. Incubate the mixture for 5-10 minutes at room temperature (solution may appear cloudy).
6. Add the complexes (70  $\mu\text{l}$ ) to the cells.
7. Incubate for 4 hours in at 37 °C in CO<sub>2</sub> incubator.
8. If longer incubation is required, add 50  $\mu\text{l}$  serum to adjust serum concentration to 8%.
9. Perform your assay.

Table 1. Recommended amounts per well for commonly used multi-well plates

Format	Growth medium ( $\mu\text{l}$ )	Protein ( $\mu\text{g}$ )	PBS ( $\mu\text{l}$ )	SAINT-Protein ( $\mu\text{l}$ )
96-well	100-200	0.4	10	4
48-well	200-350	1	25	10
24-well	400-750	2	50	20
12-well	750-1500	4	100	40
6-well	2000-3000	8	200	80

**Note:** the SAINT-Protein reagent is stable for at least 1 year at 4°C. Do not freeze!