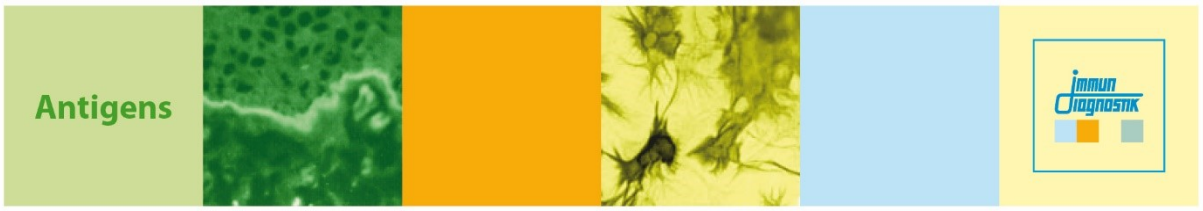

Data Sheet

PROTRANSDUZIN® (PTD)

SYNTHETIC

Catalog no.:	A 2115AG.6
Name:	Protransduzin® (PTD)
Sequence:	QCKIKQIINMWQ
MW:	1532.8 Da
Source:	Synthetic
Purity:	> 90% (HPLC)
Peptide content:	60.3%, lyophilized from 0.1% trifluoroacetic acid / 40% acetonitrile (capillary gas chromatography)
Appearance:	White powder
Contents:	10 mg (lyophilized) Resuspend in DMSO to obtain stock solution at 10 mg/ml
Store at:	-20°C (lyophilized) until expiry date; -20°C (dissolved in DMSO at 10 mg/ml for 1 week). Use immediately after further dilution.
Known applications:	Retro- and lentiviral gene transfer, concentration of viral particles by brief low speed centrifugation.
Procedure:	Perform all of the following steps under sterile conditions.

Retro- and lentiviral transduction into adherent and suspension cells[1]

1.	Dissolve PTD peptide in DMSO to a concentration of 10 mg/ml (PTD stock solution).
2.	Dilute the PTD stock solution 10-fold with PBS or medium (without FCS) to 1 mg/ml (PTD working solution). Vortex for 2 seconds.
3.	Add freshly prepared PTD working solution to the virus stock of interest to obtain a concentration of 10–50 µg/ml PTD and resuspend twice.
4.	Incubate 5 min at room temperature.
5.	Inoculate cells with the PTD/virus mixture.
6.	Cultivate cells under standard conditions. Optionally, cell culture medium can be exchanged after 4 hours of incubation.

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Concentration of retro- and lentiviral vectors[1]

1.	Dissolve PTD peptide in DMSO to a concentration of 10 mg/ml (PTD stock solution).
2.	Dilute the PTD stock solution 10-fold with PBS or medium (without FCS) to 1 mg/ml (PTD working solution). Vortex for 2 seconds.
3.	Add freshly prepared PTD working solution to the virus stock to obtain a concentration of 10 µg/ml PTD.
4.	Resuspend PTD/virus solution twice.
5.	Incubate 5 min at room temperature.
6.	Centrifuge PTD/virus solution at 5 000–10 000 *g* for 5 min at room temperature.
7.	Carefully remove supernatant using a pipette, and resuspend the PTD/virus pellet in 1/10 of the original volume using the medium or buffer of choice.
8.	Inoculate cells with the concentrated PTD/virus mixture. Final concentrations of PTD in cell culture should not exceed 50 µg/ml.

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