

## Data Sheet

# PROTRANSDUZIN® (PTD)

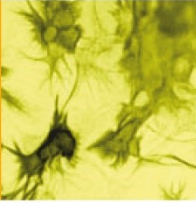
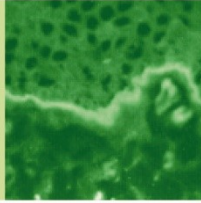
## SYNTHETIC

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

### Retro- and lentiviral transduction into adherent and suspension cells<sup>1</sup>

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.





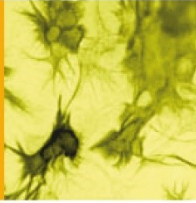
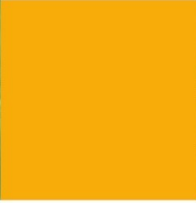
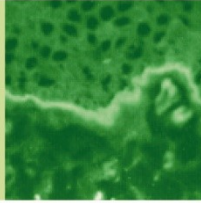
### Concentration of retro- and lentiviral vectors<sup>1</sup>

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.

### Reference:

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