

Transfection controls

# R-Phycoerythrin

Positive control for protein delivery

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## Application Note

## R-Phycoerythrin | Specifications

Package content	PHY0100: 100µL of R-Phycoerythrin
Shipping conditions	Room Temperature
Storage conditions	IgG-FITC is light sensitive and must be store in the dark at +4°C
Shelf life	1 year from the date of purchase when properly stored and handled
Product description	OZ Biosciences R-Phycoerythrin is a naturally fluorescent protein from algae and is composed of a 240KD protein covalently linked to a number of fluorophores called phycobilins.
Important notice	For research use only. Not for use in diagnostic procedures

## R-Phycoerythrin | General Considerations

R-Phycoerythrin properties:

- Absorption maximum: 498/565nm
- Emission maximum: 573nm
- Extinction coefficient:  $1.96 \times 10^6 \text{ M}^{-1}\text{cm}^{-1}$
- Quantum yield : 0.84
- Solvent: DPBS
- Concentration: 100µg/mL
- pH 7.4

## R-Phycoerythrin | Applications

With its exceptional fluorescence characteristics, R-Phycoerythrin is a perfect positive control for intracellular protein delivery using OZ Biosciences Pro-DeliverIN reagent.

For additional information and protocols (optimization, scaling, co-transfection...) tips, troubleshooting or other applications

[www.ozbiosciences.com](http://www.ozbiosciences.com)

Any questions?

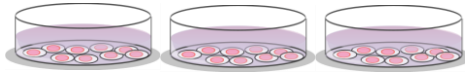
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# Pro-DeliverIN™ Quick Protocol

To find the ideal conditions, Pro-DeliverIN™ must be tested at ratios **1  $\mu\text{L}/\mu\text{g}$** , **2  $\mu\text{L}/\mu\text{g}$**  and **2.5  $\mu\text{L}/\mu\text{g}$**  of Pro-DeliverIN / Antibody. For the protein quantity, we suggest **0.4  $\mu\text{g}$**  per well in 96-well, **1  $\mu\text{g}$**  / well in 24-well and **5  $\mu\text{g}$**  / well in 6-well\*. Depending on the properties of your protein (size, charge...), the amount used in the test can be doubled (i.e in a 24 well plate, 2  $\mu\text{g}$  of protein instead of 1  $\mu\text{g}$  for 2 / 4 / 5  $\mu\text{L}$  of Pro-DeliverIN).\*

**Seed cells to be at 70% confluent the day of transfection\***

1



**Prepare the protein solution to be delivered at 100  $\mu\text{g}/\text{mL}$  in PBS\***

2



**Prepare 3 tubes of Pro-DeliverIN™ (with 3 different amounts of reagent)**

3



**96 well plate**

**24 well plate**

**6 well plate**

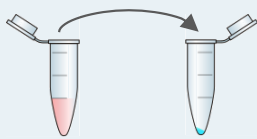
0.4 $\mu\text{L}$ /0.8 $\mu\text{L}$ /1 $\mu\text{L}$   
in an empty microtube

1 $\mu\text{L}$ /2 $\mu\text{L}$ /2.5 $\mu\text{L}$   
in an empty microtube

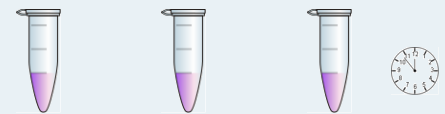
5 $\mu\text{L}$ /10 $\mu\text{L}$ /12.5 $\mu\text{L}$   
in an empty microtube

**Add the protein solution (step 2) to each tube of Pro-DeliverIN™ (step 3)**

4



**Incubate 10 min at RT**



**96 well plate**

**24 well plate**

**6 well plate**

0.4 $\mu\text{g}$  (4 $\mu\text{L}$  of 100 $\mu\text{L}/\text{mL}$   
solution in PBS) X 3

1 $\mu\text{g}$  (10 $\mu\text{L}$  of 100 $\mu\text{L}/\text{mL}$  solution in  
PBS) X 3

5 $\mu\text{g}$  (50 $\mu\text{L}$  of 100 $\mu\text{L}/\text{mL}$  solution in  
PBS) X 3

**Add serum-free medium\* to each tube and proceed immediately to the next step**

5



**96 well plate**

**24 well plate**

**6 well plate**

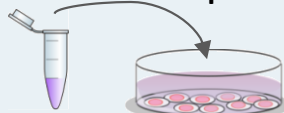
to 20 $\mu\text{L}$

to 100 $\mu\text{L}$

to 200 $\mu\text{L}$

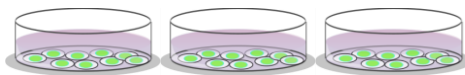
**Distribute each mix dropwise onto the cells\***

6



**Incubate cells for 3 to 48h at 37°C until evaluation of antibody delivery efficacy**

7



**Choose the best ratio Protein:Pro-DeliverIN™**

8



## Additional products

- **Ab-DeliverIN** for intracellular delivery of fully functional antibodies
- **Pro-DeliverIN** for intracellular delivery of biologically active protein

### Purchaser Notification

#### Limited License

The purchase of the R-Phycoerythrin grants the purchaser a non-transferable, non-exclusive license to use the kit and/or its separate and included components (as listed in this protocol). This reagent is intended for in-house research only by the buyer. Such use is limited to the transfection of nucleic acids as described in the product manual. In addition, research only use means that this kit and all of its contents are excluded, without limitation, from resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of OZ Biosciences. Separate licenses are available from OZ Biosciences for the express purpose of non-research use or applications of the R-Phycoerythrin. To inquire about such licenses, or to obtain authorization to transfer or use the enclosed material, contact us at OZ Biosciences. Buyers may end this License at any time by returning all R-Phycoerythrin reagents and documentation to OZ Biosciences, or by destroying all R-Phycoerythrin components. Purchasers are advised to contact OZ Biosciences with the notification that a R-Phycoerythrin is being returned in order to be reimbursed and/or to definitely terminate a license for internal research use only granted through the purchase of the kit(s). This document covers entirely the terms of the R-Phycoerythrin research only license, and does not grant any other express or implied license. The laws of the French Government shall govern the interpretation and enforcement of the terms of this License.

#### Product Use Limitations

R-Phycoerythrin and all of its components are developed, designed, intended, and sold for research use only. They are not to be used for human diagnostic or included/used in any drug intended for human use. All care and attention should be exercised in the use of the kit components by following proper research laboratory practices.

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