



## Maleimide-Activated R-Phycoerythrin

**403-0002** 2 mg lyophilized maleimide-activated R-Phycoerythrin  
**403-0005** 5 mg lyophilized maleimide-activated R-Phycoerythrin

Version 3

### Introduction

Maleimide-activated R-Phycoerythrin is designed to facilitate the conjugation of R-Phycoerythrin to proteins, peptides and ligands that contain sulfhydryl (-SH) groups. The reactive maleimide group that has been added to the R-Phycoerythrin allows conjugation reactions to be performed very efficiently at physiological pH.

### Storage of Maleimide-activated R-Phycoerythrin

Maleimide-activated R-Phycoerythrin is shipped at ambient temperature as a lyophilized powder containing stabilizers and should be stored at -20°C. Shelf life is >1 year.

### Protocol

1. Allow the vial of maleimide-activated R-Phycoerythrin to warm to room temperature.
2. Remove the crimp seal and reconstitute the lyophilized powder by adding a buffered solution of the thiol-containing molecule. Gently agitate the vial to ensure thorough dissolution.

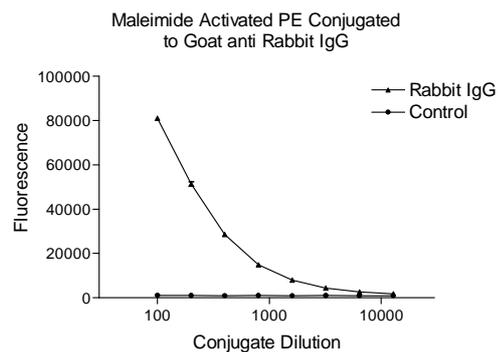
Note: The buffer in which the thiolated molecule is dissolved should be in the pH range 6.5-7.5. Phosphate buffered saline pH 7.2 is commonly employed. EDTA (1-10 mM) may help to prevent metal catalysed oxidation of thiols.

3. Incubate for 3-4 hours (or overnight) at room temperature and then store at 4°C.

### Tech Note:

Molecules that do not contain -SH groups can be chemically modified to introduce the required thiol functionality. In the case of antibodies, disulfide (S-S) bridges may also be cleaved to release free thiols. Further technical information about chemical modification strategies is available on our website.

### Example Data



Thiolated goat anti-rabbit IgG was incubated with maleimide-activated R-PE. The resulting conjugate was analysed by ELISA using a rabbit IgG coated plate.

### Related Products

- 401-0005 Maleimide HRP
- 402-0005 Maleimide Alkaline Phosphatase
- 404-0002 Maleimide Allophycocyanin
- 405-0005 Maleimide Streptavidin

For further information and related detection reagents see [www.innovabiosciences.com](http://www.innovabiosciences.com)