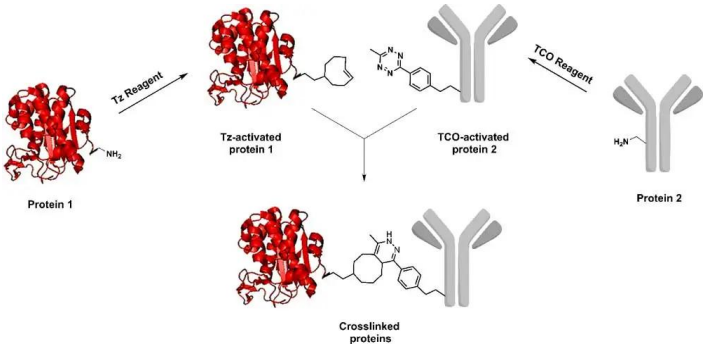
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

# CLICK-&-GO® LYS-TO-LYS PROTEIN-PROTEIN CONJUGATION KIT

**SKU:** CCT-1008




## DESCRIPTION

The Lys-to-Lys Protein-Protein Conjugation Kit (Cat. # 1008) provides a sufficient amount of reagents to perform two protein-protein conjugation reactions. Any two lysine containing proteins (100-500 µg) in a volume of 100 µL (1-5 mg/mL) can be efficiently conjugated in less than 3 hours, start-to-finish.

The Lys-to-Lys Protein-Protein Conjugation kit provides all of the necessary reagents to perform two protein-protein conjugation reactions. Conjugates are formed by the very efficient, catalyst-free bio-orthogonal ligation reaction between trans-cyclooctene (TCO) and tetrazine (Tz) functional groups. In the protocol provided, two proteins (or any other amine-containing biopolymers) are labeled separately with TCO and Tetrazine reagents. The labeled molecules are then mixed for 60 minutes in any suitable buffer to form a conjugate.

The extremely fast kinetics of the TCO/Tz ligation reaction enables rapid conjugation (30-60 min) of lysine containing proteins to each other at low concentrations (e.g. 5-10 µM), with >99% conversion of the limiting protein in mild buffered media (e.g. PBS pH 7.5). Another benefit is the long-term stability of TCO and Tz functional groups on modified proteins stored in aqueous buffered media (e.g. maintaining > 90% reactivity after 1 month at 4oC, pH 7.5). This stability allows for worry-free conjugation results without the sensitive timing of reactions associated with classical thiol/maleimide chemistry.

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**

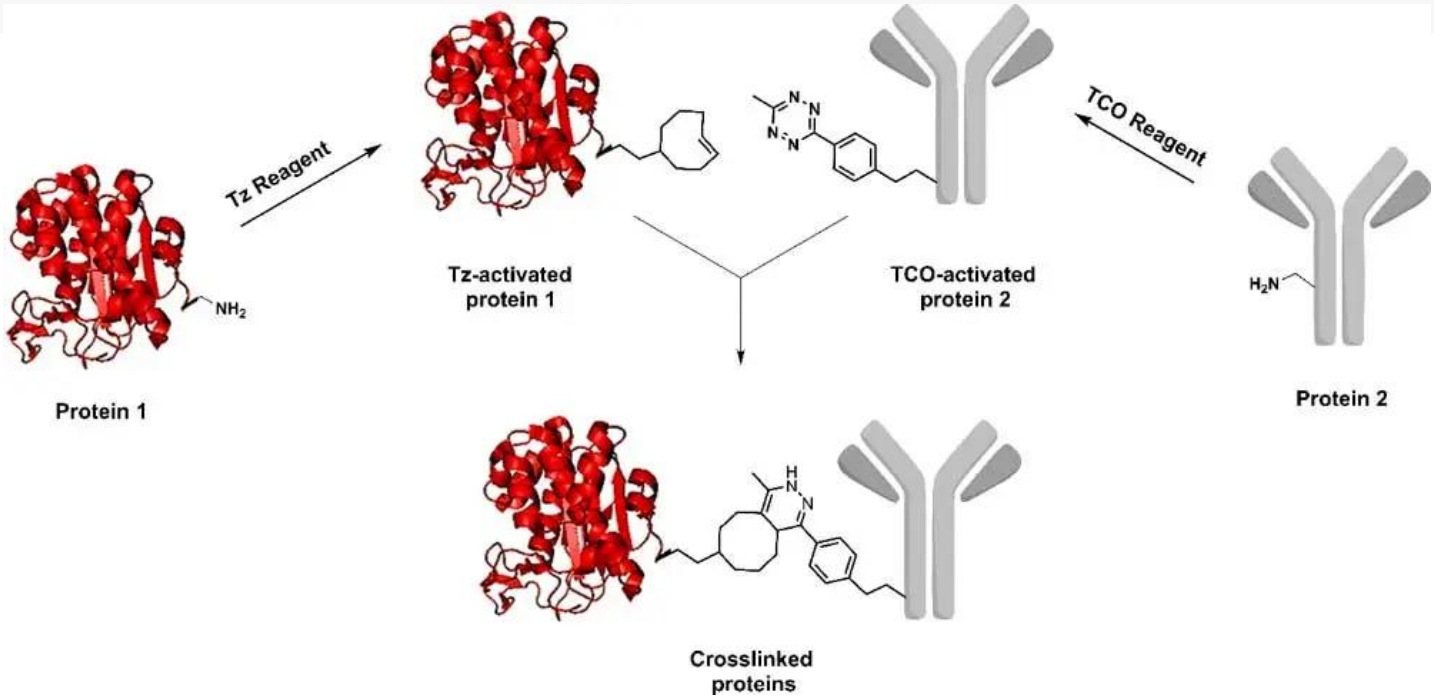



Figure 1. Schematic representation of protein-protein conjugation.

# SPECIFICATIONS

| | |
|---|---|
| **Unit Size** | 1 Kit |
| **Storage Instructions** | 4C |
| **Number of Reactions** | 2 |
| **Quantity** | 2 |
| **Shipping Instructions** | Ambient temperature |

# DOCUMENTS

- Safety Data Sheet
- Download CoA
- User Guide
- Datasheet

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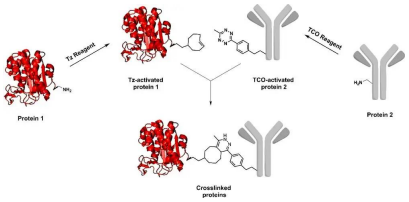
# GALLERY IMAGES

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