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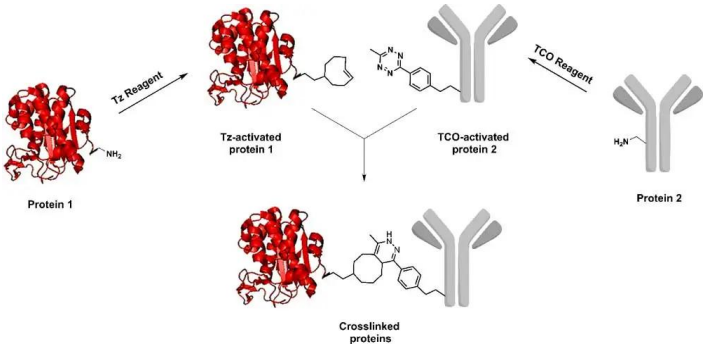
CLICK-&-GO® LYS-TO-LYS PROTEIN-PROTEIN CONJUGATION KIT

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.

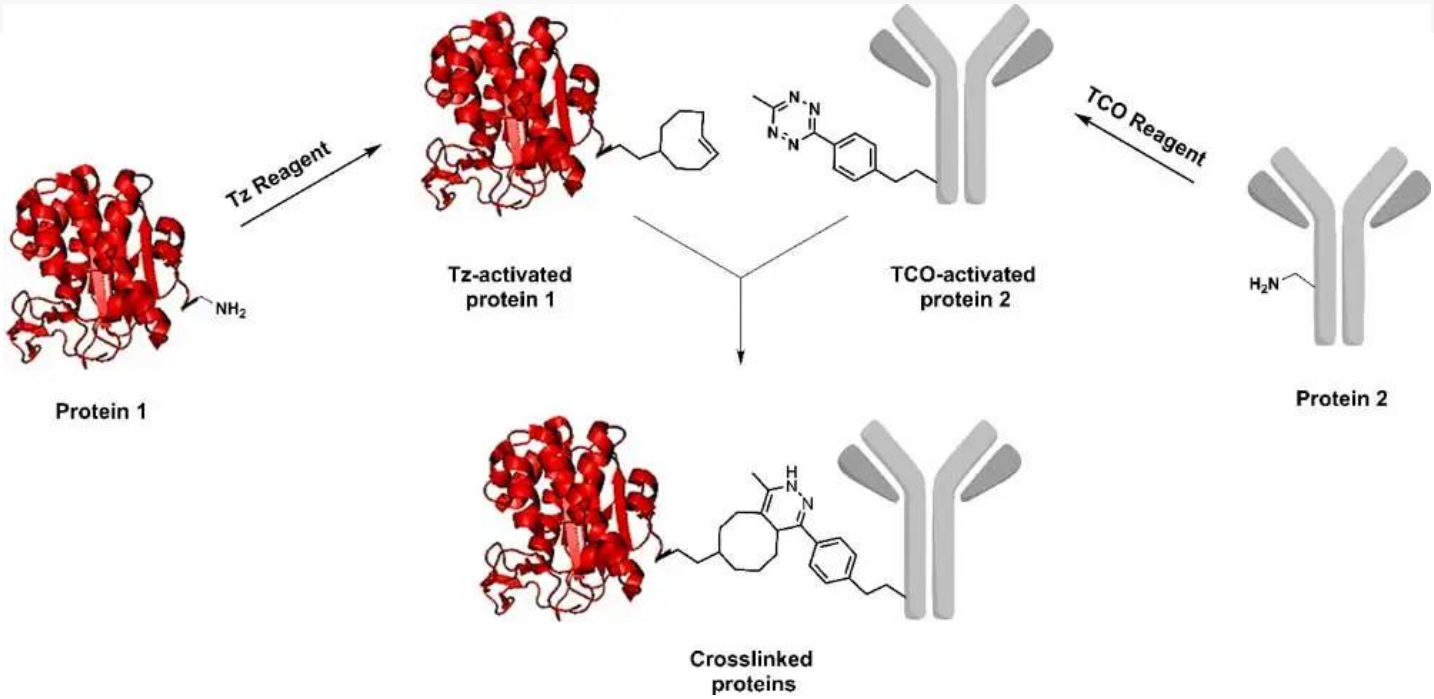


Figure 1. Schematic representation of protein-protein conjugation.

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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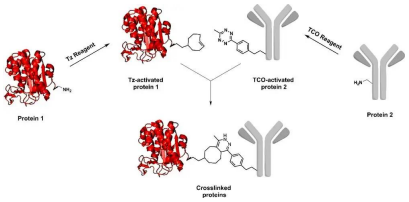
GALLERY IMAGES



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