

Buccutite™ MTA scavenger

Catalog number: 5365

Unit size: 2 umoles

Component	Storage	Amount
Buccutite™ MTA scavenger	Freeze (<math>< -15\text{ }^\circ\text{C}</math>), Minimize light exposure	2 umoles

OVERVIEW

Our Buccutite™ crosslinking technology provides the most convenient and effective crosslinking method to link two biomolecules with a high conjugation yield. Our method uses one pair of crosslinkers: Buccutite™ MTA and Buccutite™ FOL. MTA is added to one molecule, while FOL is added to another molecule. The cross-linking reaction is initiated by mixing Molecule-1-Buccutite™ MTA and Molecule-2-Buccutite™ FOL. This crosslinking reaction occurs under extremely mild and neutral conditions without any catalyst required. It is robust and efficient. Many of our customer have requested us to offer the stand-alone Buccutite™ MTA and Buccutite™ FOL reagents to expand the application of Buccutite™ crosslinking technology. This Buccutite™ MTA reagent is used to eliminate unreacted MTA groups of the crosslinked product if desired. For the vast majority of applications, there is no need to block the unreacted MTA groups from the final crosslinked product.

AT A GLANCE

1. Prepare Buccutite™ MTA scavenger stock solution.
2. Add 1 uL /100 uL reaction mixture.
3. Incubate at room temperature for 30~60 minutes.

PREPARATION OF STOCK SOLUTIONS

Unless otherwise noted, all unused stock solutions should be divided into single-use aliquots and stored at $-20\text{ }^\circ\text{C}$ after preparation. Avoid repeated freeze-thaw cycles.

Add 200uL DMSO to Buccutite™ MTA scavenger vial to prepare 10 mM stock solution.

Note The Buccutite™ MTA scavenger stock solution should be stored at $-20\text{ }^\circ\text{C}$ after preparation and stable for 2 months if avoid repeated freeze-thaw cycles.

SAMPLE EXPERIMENTAL PROTOCOL

1. Add 1 uL /100 uL reaction mixture so the final concentration of Buccutite™ MTA scavenger in reaction mixture is 100 uM.
2. Incubate at room temperature for 30~60 minutes.

Note 1 uL Buccutite™ MTA scavenger stock solution is enough to scavenge MTA groups in solution when the concentration is lower than 100 uM. If there is higher concentration -MTA in the mixture, the volume needs to be adjusted to scavenge all the MTA groups.

EXAMPLE DATA ANALYSIS AND FIGURES

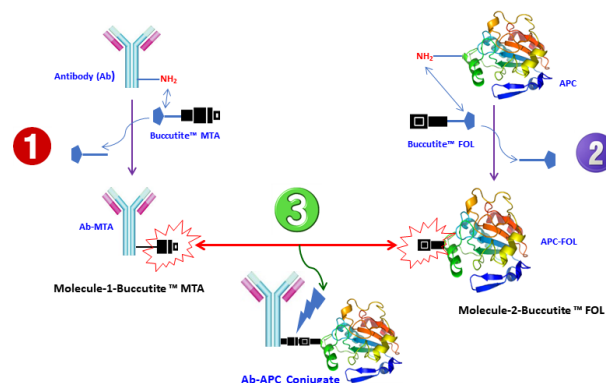


Figure 1. Buccutite™ crosslinking technology provides the most convenient and effective crosslinking method to link two biomolecules with a high conjugation yield. Our method uses one pair of crosslinkers: Buccutite™ MTA and Buccutite™ FOL. MTA is added to one molecule, while FOL is added to another molecule. The cross-linking reaction is initiated by mixing Molecule-1-Buccutite™ MTA and Molecule-2-Buccutite™ FOL. This crosslinking reaction occurs under extremely mild and neutral conditions without any catalyst required. It is robust and efficient.

DISCLAIMER

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