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1. Description

This product is for research use only.

Components

Oligo Adapters TCO	Order no.
Oligo Adapter TCO, Seq ID BF	130-137-353
Oligo Adapter TCO, Seq ID 01	130-137-277

Product format	Lyophilized, 10 nmol
5'-Modification	TCO (trans-cyclooctene)
Storage	Store product at -20°C . After reconstitution, store aliquots at -20°C . The expiration date is indicated on the label. Protect from light.
Reconstitution	Reconstitute lyophilized Oligo Adapter TCO with $100\ \mu\text{L}$ of nuclease-free water for $100\ \mu\text{M}$ stock solution.

1.1 Background information

The Oligo Adapters TCO are designed for the conjugation to proteins using the Oligonucleotide Conjugation kit, AminoLink (# 130-138-865). The sequences of the Oligo Adapters are mutually orthogonal, allowing the simultaneous use in multiplexing applications without cross-functional interference. The oligos are functionalized with a 5'-terminal TCO group, which allows the conjugation to proteins via the click-chemistry mechanism used in the Oligonucleotide Conjugation Kit, AminoLink. The labeled protein can be immobilized on the biosensor chips used in the MACS® Matchmaker focal molography instrument to perform biomolecular interaction analyses.

1.2 Principle of Oligo Adapter TCO

The Oligo Adapters can be used for the efficient conjugation to proteins via a bi-functional linker. The linker reacts with an amine ($-\text{NH}_2$) group on the protein and activates it with a bioorthogonal methyltetrazine (MeTz) moiety. Once modified, the protein can be conjugated to DNA-oligonucleotides containing a trans-cyclooctene (TCO) group.

2. Protocol

▲ For a detailed protocol refer to the Oligonucleotide Conjugation Kit, AminoLink data sheet (# 130-138-865).

▲ Refer to the user manual for instructions on how to use the MACS Matchmaker instrument.

2.1 Preparation of stock solution

A working concentration of $100\ \mu\text{M}$ is recommended for protein conjugation using the to Oligonucleotide Conjugation Kit, AminoLink (# 130-138-865).

1. Reconstitute the entire vial contents by adding $100\ \mu\text{L}$ of nuclease-free water.
2. Prepare appropriate aliquots and store at -20°C . Avoid repeated freeze-thaw cycles.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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