

## BT57 Reagent, Mass Spec Grade

**Cat. No.** BT57 Reagent-50    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

#### Description

BT57 is a fast, three-in-one reagent for denaturation, reduction, and alkylation, ideal for biopharmaceutical and proteomics research. In these fields, native protein structures are typically denatured, reduced, alkylated, desalted, and then prepared for enzymatic reactions. Conventional denaturants like urea and guanidine hydrochloride can chemically modify proteins (e.g., carbamylation), and traditional alkylating agents require light protection. BT57 addresses these issues, allowing for the rapid completion of denaturation, reduction, and alkylation in a single step. It is suitable for proteomics, biopharmaceuticals, and single-cell sample research.

#### Form

Lyophilized powder

#### Molecular Mass

393.28 Da

#### Purity

> 99.9 % based on BT Surfactant peak area, analyzed by Thermo QE HF mass spectrometry with positive ion mode ESI.

#### Storage

Powder at -20 centigrade, reconstituted solution at -80 centigrade

#### CAS No.

881640-19-3

#### Shelf life

24 months at -80 centigrade as a solution; long-term stable at -20 centigrade as powder

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|                            |                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage Notes</b>         | Reference Protocol: Add 10 $\mu$ L BT57 to 10 $\mu$ L (50 $\mu$ g) protein sample, mix, and incubate at 60 centigrade for 20 min or 95 centigrade for 10 min.                |
| <b>Resuspension Buffer</b> | 52 $\mu$ L double-distilled water dissolve.                                                                                                                                  |
| <b>pH Range</b>            | pH 7-9 for protein denaturation reaction, will degrade and precipitate in solution at pH 2-4                                                                                 |
| <b>Degradation</b>         | 0.1 % BT Surfactant peak area after incubation with 0.2 % (v/v) formic acid at 45 centigrade for 30 minutes, analyzed by QE HF mass spectrometry with negative ion mode ESI. |

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