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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Usage Notes	Reference Protocol: Add 10 µL BT57 to 10 µL (50 µg) protein sample, mix, and incubate at 60 centigrade for 20 min or 95 centigrade for 10 min.
Resuspension Buffer	52 µL double-distilled water dissolve.
pH Range	pH 7-9 for protein denaturation reaction, will degrade and precipitate in solution at pH 2-4
Degradation	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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