

# Reductive Alkylation Kit - tube format - 1/ea

Reductive alkylation of lysine residues to change protein properties (pI, solubility and hydrophathy) which may promote crystallization via improved crystal packing.

**Product codes:**

Reference: HR 2434

## Reductive Alkylation Kit

**Product gallery:**

Reductive  
Alkylation Kit

**Product description:**

- Flexible protocol allows for methylation or ethylation or isopropylation of lysine
- 6 Reductive alkylation reactions
- A surface-engineered protein, ready for crystallization, is produced within 24 hours
- Optimized protocol for selective alkylation of lysine residues
- Methanol free formaldehyde
- Can be used to manipulate sample solubility and pI

The Reductive Alkylation Kit offers a flexible alkylation protocol for methylation or ethylation or isopropylation of lysine residues.

Reductive alkylation of lysine residues to change protein properties (pI, solubility and hydrophathy) which may promote crystallization via improved crystal packing.

Reductive alkylation of proteins has been successfully applied to obtain a significant number of high-quality crystals from proteins previously unable to be crystallized. Alkylating the ε amino group of lysines alters the hydrophathy, solubility and pI of the protein which may promote crystallization by altering sample-sample, sample-solvent and crystal packing interactions.

Reductive alkylation does not change the intrinsic charge on a protein but may change the isoelectric point (pI) slightly. The N-terminal amino group on the backbone will also be reductively

alkylated. In general, alkylated proteins retain their original biochemical function. This protocol is designed with the goal of generating a high degree of modification with few side reactions, resulting in a homogeneous population of protein.

Per maggiori informazioni visita il sito <https://hamptonresearch.com/>

**Product features:**

CRF - TIPO: Reductive Alkylation Kit