

Product Name: Complete Energy Regeneration System (C-ERS)

Product Code: TBS-135

FOR RESEARCH USE ONLY (RUO)

Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 48 months from date of receipt).

Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Verified Applications / Usage

The Complete Energy Regeneration System has been functionally validated to sustain ATP-dependent enzymatic activity in extended *in vitro* ubiquitylation assays, enabling robust ubiquitin conjugation and improved reaction performance.

Background

Description

The Complete Energy Regeneration System contains an optimized mixture of recombinant enzymes that continuously regenerates ATP during ATP-dependent biochemical reactions. This solution is well suited for *in vitro* ubiquitylation assays, kinase assays, ATPase assays, and other applications requiring sustained ATP availability for maximal enzyme activity.

Components

Tube 1: 100 μL 10X ERS Buffer

Tube 2: 100 μL 10X ERS Enzyme Mix

Tube 3: 100 μL 10X ATP Solution