Product Name: BpJOS Clippase

Product Code: TDE-142

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

BpJOS Clippase is suitable for Ub-clipping workflows to generate diglycine (GG) remnants for ubiquitylation-site mapping, ubiquitome analysis, characterization of cellular ubiquitin conjugates, non-protein ubiquitination analysis, and NEDD8 clipping.

Physical Characteristics

Species: *Burkholderia pyrrocinia*

Predicted MW (kDa): 28 kDa

Source: *E. coli* BL21

Purity: 90 %

Tag: N-Twin Strep-3C

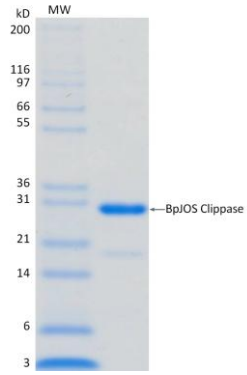
Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 2 mM TCEP, 1 mM EDTA, pH 7.6

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

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE



2 µg BpJOS Clippase run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Protein ID: Josephin family ubiquitin C-terminal clippase

Activity Assay

Verified by Polyubiquitin Chain Cleavage Assay.

Background

Description

BpJOS Clippase is a highly active, linkage-promiscuous ubiquitin C-terminal clippase from *Burkholderia pyrrocinia* that cleaves ubiquitin between Arg74 and Gly75, leaving a diagnostic diglycine remnant on modified substrates. It is suited for ubiquitin site mapping, ubiquitin clipping workflows, and analysis of protein and non-protein ubiquitylation.

UniParc Accession Number: UPI00075BC7F9 **Entrez Gene ID:** BpJOS

Protein Sequence

MWSHPQFEKGGGSGGGSGGSAWSHPQFEKSDLEVLFQGPMGHLKKIGGKPNGAASALGNSLKK
ALDTREPLSESNFLSGHVHPHDTPIHPGANGLFYHEIQRVDSGTCAVHAANAYSGSSQYNLHH
FANAQSNMVGLDYNEAKGLILQDGNDPNFVKAVLNESKGAANTAHIAKSKTELADILDHVDRD
IDRVMVGLAGPGESGHWVAFRKDGDKKWHKIDSYPRGIRASDPQPDQSPADFLRQRPGTESHY
SIIYR