

Product Name: PINK1 (*P. humanus* subsp. *corporis*)

Product Code: TAP-083

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

PINK1 has been functionally validated in in vitro kinase assays by phosphorylation of ubiquitin at Ser65 and is suitable for kinase activity assays, phosphorylated ubiquitin generation, inhibitor profiling, and mechanistic studies of the PINK1-Parkin signaling pathway.

Physical Characteristics

Species: *Pediculus humanus* subsp. *corporis* (Body louse)

Predicted MW (kDa): 62 kDa

Source: *E. coli* BL21

Purity: 85 %

Tag: Untagged

Formulation: 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 1 mM EDTA, 2 mM TCEP, pH 7.6

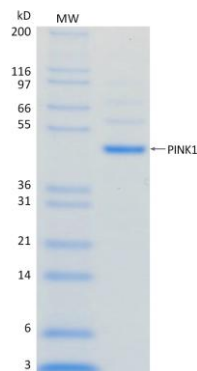
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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

Protein ID: Serine/threonine-protein kinase Pink1, mitochondrial



2 µg PINK1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitylation Assay with phospho-Ubiquitin and Parkin.

Background

Description

PINK1 from *P. humanus* subsp. *corporis* (body louse) is a highly active recombinant kinase widely used to phosphorylate ubiquitin and Parkin for studies of mitophagy and mitochondrial quality control. Its robust activity and favorable biochemical properties make it an ideal reagent for kinase assays, phosphorylated ubiquitin production, inhibitor screening, and mechanistic investigations of the PINK1-Parkin pathway.

Accession Number: E0W111

Entrez Gene ID: PINK1

Protein Sequence

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SESENVEQLQAANLDELDELGEPIAKGCNAVVSASLKNVQSNKLAHQVLAVKMMFNVDVESNST
AILKAMYRETPAMSYFFNQNLFNENISDFKIRLPPHPNIVRMYSVFADRIPLDQCNKQLYP
EALPPRINPEGSGRNMSTFLVMKRYDCTLKEYLRDKTPNMRSSILLLSQLLEAVAHMNIHNIS
HRDLKSDNILLVDLSEGDAYPTIVITDFGCCLCDKQNGLVIPYRSEDQDKGGNRALMAPEIANA
KPGTFSWLNYKKSDLWAVGAIAYEIFNIDNPFYDKTMKLLSKSYKEEDLPELPDTIPFIIRNL
VSNMLSRSTNKRLDCDVAATVAQLYLWAPSSWLKENYTLPSNEIIQWLLCLSSKVLCDIT
ARNKTNMTMESVSQAQYKGRSLPEYELIASFLRRVRLHLVRKGLKWIQELHIYN
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