

Pucl Protein, Bacillus subtilis, Recombinant (His & Myc)

General Information

Synonyms: pucl;yunL;Uric acid degradation bifunctional protein Pucl

Protein Construction: 1-494 aa

Species: Bacillus subtilis

Expression Host: E. coli

Accession: O32141

Molecular Weight: 64.0 kDa (predicted)

AA Sequence: MFTMDDLQMDTQTLTDTLGSIFEHSSWIAERSAALRPFSSLSDLHRKMTGIVKAAADRETQLDLIKKHPRLGT
KKTMSDDSVREQQNAGLGKLEQQEYEEFLMLNEHYDRFGFPFILAVKGGTKQDIHQALLARLESERETEFQ
QALIEIYRIARFRLADIITEKGETQMKRTMSYGGKGNVFAYRTYLKPLTGKQIPESSFAGRDNTVVGVDVTCEIG
GEAFLPSFTDGDNTLVVATDSMKNFIQRHLASYEGTTTEGFLHYVAHRFLDTYSHMDTITLTGEDIPFEAMPAY
EEKELSTSRLVFRRSRNERSRSVLKAERSGNTITITEQYSEIMDLQLVKVSGNSFVGFIRDEYTTLPEDGNRPLFV
YLNISWQYENTNDSYASDPARYVAAEQVRDLASTVFHELETPSIQNLIYHIGCRILARFPQLTDVVSFQSQNHT
WDTVVEEIPGSKGKVVYTEPRPPYGFQHFVTREDAEKEKQKAAEKCRSLKA

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes two steps in the degradation of uric acid, i.e. the oxidation of uric acid to 5-hydroxyisourate (HIU) and the stereoselective decarboxylation of 2-oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline (OHCU) to (S)-allantoin.

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