

CPS1 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Carbamoyl-phosphate synthetase I (CPSase I);Carbamoyl-phosphate synthase [ammonia], mitochondrial;Cps1;mitochondrial
Protein Construction:	551-743 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8C196
Molecular Weight:	26.8 kDa (predicted)
AA Sequence:	SDKLNINEKIAPSFAMESMEDALKAADTIGYPVMIRSAYALGGLGSGICPNKETLIDLGTKAFAMTNQILVERS VTGWKEIEYEVVRDADDNVCVTCNMENVNDAMGVHTGDSVVVAPAQTLNSNAEFQMLRRTSVNVVRHLGIVG ECNIQFALHPTSMEYCIIEVNRARLSRSSLASKATGYPLAFIAAKIAL

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

Involved in the urea cycle of ureotelic animals where the enzyme plays an important role in removing excess ammonia from the cell.

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