

PPIL2 Protein, Human, Recombinant (aa 280-457, His)

General Information

Synonyms:	UBOX7;Cyp-60;CYP60;CYC4;peptidylprolyl isomerase (cyclophilin)-like 2;hCyP-60
Protein Construction:	A DNA sequence encoding the mature form of human PPIL2 (Q13356-2) (Gly280-Pro457) was expressed with a polyhistide tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q13356-2
Molecular Weight:	21.9 kDa (predicted); 24 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

PPIL2, is an enzyme that belongs to the cyclophilin family. The cyclophilins are peptidylprolyl isomerases and are highly conserved ubiquitous. They play an important role in protein folding, immunosuppression by cyclosporin A, and infection of HIV-1 virions. PPIL2 interacts with the proteinase inhibitor eglin c and is localized in the nucleus. It contains 1 PPIL2 cyclophilin-type domain and 1 U-box domain. PPIL2 accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Reference

- Grouse LH. et al., 2003, Proc Natl Acad Sci. 99 (26): 16899-903.
Lennon G. et al., 1997, Genome Res. 6 (9): 791-806.
Payan DG. et al., 1996, Biochem J. 314 (1): 313-9.

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