

## KLF6 Protein, Human, Recombinant

### General Information

Synonyms:	CPBP;GC-Rich Sites-Binding Factor GBF;Suppressor of Tumorigenicity 12 Protein;ST12;KLF6; Transcription Factor Zf9;Krueppel-Like Factor 6;BCD1;B-Cell-Derived Protein 1;COPEB;Core Promoter Element-Binding Protein;Proto-Oncogene BCD1
Protein Construction:	Met1-Ser109
Species:	Human
Expression Host:	E. coli
Accession:	Q99612-3
Molecular Weight:	13-19 KDa (reducing condition)
AA Sequence:	Met1-Ser109

### 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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled 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

Krueppel-Like Factor 6 (KLF6) belongs to the krueppel C2H2-type zinc-finger protein family. KLF6 contains three C2H2-type zinc fingers and localizes in the nucleus. KLF6 expression is highest in the placenta followed by spleen, thymus, prostate, testis, small intestine and colon. However, it is weakly expressed in the pancreas, lung, liver, heart, and skeletal muscle. KLF6 functions as a transcriptional activator and could play a role in B-cell growth and

development. Defects in KLF6 will result in gastric cancer and prostate cancer.

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