

## FOXL2 Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms: Forkhead box protein L2;FOXL2

Protein Construction: 1-376 aa

Species: Human

Expression Host: E. coli

Accession: P58012

Molecular Weight: 43.8 kDa (predicted)

AA Sequence:

```
MMASYPEPEDAAGALLAPETGRTVKEPEGPPSPGKGGGGGGTAPKPDPAQKPPYSYVALIAMAIRESAE
KRLTLGGIYQYIIAKFPFYKKNKKGWQNSIRHNLNLNECFIKVPREGGGERKGNVWTLDPACEDMFEKGNVRR
RRRMKRPFRRPPPAHFQPGKGLFGAGGAAGGCGVAGAGADGYGYLAPPKYLQSGFLNNSWPLPQPPSPMP
YASCQMAAAAAAAAAAAAAAAAAAGPGSPGAAAVVKGLAGPAASYGPYTRVQSMALPPGVVNSYNGLGPPAA
PPPPHPHPHPHAHHLHAAAAPPPAPPHGAAAPPPGQLSPASPATAAPPAPAPTSAPGLQFACARQPEL
AMMHCSYWDHDSKTGALHSRLDL
```

### 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**

Transcriptional regulator. Critical factor essential for ovary differentiation and maintenance, and repression of the genetic program for somatic testis determination. Prevents trans-differentiation of ovary to testis through transcriptional repression of the Sertoli cell-promoting gene SOX9. Has apoptotic activity in ovarian cells. Suppresses ESR1-mediated transcription of PTGS2/COX2 stimulated by tamoxifen. Is a regulator of CYP19 expression. Participates in SMAD3-dependent transcription of FST via the intronic SMAD-binding element. Is a transcriptional repressor of STAR. Activates SIRT1 transcription under cellular stress conditions. Activates transcription of OSR2.

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