

## Wilms tumor protein homolog Protein, Mouse, Recombinant (His &amp; Myc)

## General Information

Synonyms: Wt1;Wt-1;Wilms tumor protein homolog

Protein Construction: 1-449 aa

Species: Mouse

Expression Host: E. coli

Accession: P22561

Molecular Weight: 56.7 kDa (predicted)

AA Sequence: MGS DVRDLNALLPAVSSLGGGGGGCGLPVSGARQWAPVLDFAAPPASAYGSLGGPAPPPAPPPPPPPHS  
FIKQEPSWGGAEPEEQCLSAFTLHFSGQFTGTAGACRYGPFPPPPSQASSGQARMFPNAPYLPSCLESQP  
TIRNQGYSTVTFDGAPSYGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCPTDSCSGSQ  
ALLRTPYSSDNLYQMTSQLECMTNQMNLGATLKGMAAGSSSSVKWTEGQSNHGIGYESENHTAPILCGA  
QYRIHTHGVRGIQDVRVSGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMSRKHTGEKPYQCD  
FKDCERRFSRSDQLKRHRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWHSCQKKFARS  
DELVRHHNMHQRNMTKLHVAL

## 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: > 85% 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 &amp; 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**

Transcription factor that plays an important role in cellular development and cell survival. Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3'. Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. It has a tumor suppressor as well as an oncogenic role in tumor formation. Function may be isoform-specific: isoforms lacking the KTS motif may act as transcription factors. Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing. Isoform 1 has lower affinity for DNA, and can bind RNA.

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