

## Wilms tumor protein/WT1 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms: Wilms tumor protein;WT33;WT1

Protein Construction: 1-449 aa

Species: Human

Expression Host: E. coli

Accession: P19544

Molecular Weight: 65.2 kDa (predicted)

AA Sequence: MGSDVRDLNALLPAVPSLGGGGGCGALPVSGAAQWAPVLDFAAPPASAYGSLGGPAPPPAPPPPPPPPPHS  
FIKQEPSWGGAEPEHEEQCLSAFTVHFSGQFTGTAGACRYGPFPPPPPSQASSGQARMFPNAPYLPSCLESQP  
AIRNQGYSTVTFDGTSPSYGHTPSHHAAQFPNHSEFKHEDPMGQQGSLGEQQYSVPPPVYGCPTDSTGTSQ  
ALLLRTPYSSDNLYQMTSQLECMTNQMNLGATLKGVAAGSSSSVKWTEGQSNHSTGYESDNHTTPILCGA  
QYRIHTHGVRGIQDVRRVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCD  
FKDCERRFSRSDQLKRHRHTGVKPFQCKTCQRKFSRSDHLKTHTRHTGKTSEKPFSCRWPSCQKKFARS  
DELVRHHNMHQRNMTKLQAL

### 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: Tris-based buffer, 50% glycerol

### 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:

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.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping 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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