

## Wnt10a Protein, Human, Recombinant (His)

### General Information

Synonyms: WNT10A;Protein Wnt-10a

Protein Construction: 36-417 aa

Species: Human

Expression Host: P. pastoris (Yeast)

Accession: Q9GZT5

Molecular Weight: 44.4 kDa (predicted)

AA Sequence:

MPRSAPNDILDRLPPEPVLNANTVCLTLPGLSRRQMEVCVRHPDVAASAIQGIQIAIHECQHQFRDQRWNC  
SSLETRNKIPYESPFIKSRGFRESAFAYAIAAAGVVHAVSNACALGKLGKACGCDASRRGDEEAFRRKLHRLQLDA  
LQRGKGLSHGVPEHPALPTASPLQDSWEWGGCSPDMGFGFRFSKDFLDSREPHRDIHARMRLHNNRVGR  
QAVMENMRRKCKCHGTSGSCQLKTCWQVTPEFRTVGALLRSRFRATLIRPHNRNGGQLEPGPAGAPSPAP  
GAPGPRRRASPADLVYFEKSPDFCEREPRLDSAGTVGRLCNKSSAGSDGCGSMCCGRGHNILRQTRSERCHC  
RFHWCCFVCEECRITWVSVCK

### 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:

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

## A DRUG SCREENING EXPERT

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Ligand for members of the frizzled family of seven transmembrane receptors. Functions in the canonical Wnt/beta-catenin signaling pathway. Plays a role in normal ectoderm development. Required for normal tooth development. Required for normal postnatal development and maintenance of tongue papillae and sweat ducts. Required for normal proliferation of basal cells in tongue filiform papillae, plantar epithelium and sweat ducts. Required for normal expression of keratins in tongue papillae. Required for normal expression of KRT9 in foot plant epithelium. Required for normal hair follicle function.

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