

## WIF-1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	Wnt Inhibitory Factor 1;WIF-1;WIF1
Protein Construction:	Gly29-Trp379
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH18037.1
Molecular Weight:	45 KDa (reducing condition)
AA Sequence:	Gly29-Trp379

### 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 10 mM HAc-NaAc, 150 mM NaCl, 0.5% CHAPS, pH 4.0.

### 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

Wnt Inhibitory Factor 1 (WIF1) is a secreted protein, which binds WNT proteins and inhibits their activities. WNT proteins are extracellular signaling molecules involved in the control of embryonic development. WIF1 contains a WNT inhibitory factor (WIF) domain and 5 epidermal growth factor (EGF)-like domains. is found to be present in fish, amphibia and mammals. WIF1 is a recurrent target in human salivary gland oncogenesis.WIF1 may be involved in mesoderm segmentation. WIF1 is a tumor suppressor, specifically in nonfunctioning pituitary tumors.

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