

## WIF-1 Protein, Mouse (HEK293, His)

|                   |                                |
|-------------------|--------------------------------|
| Cat. No.:         | HY-P74463                      |
| Synonyms:         | Wnt inhibitory factor 1; WIF-1 |
| Species:          | Mouse                          |
| Source:           | HEK293                         |
| Accession:        | Q9WUA1 (M1-W379)               |
| Gene ID:          | 24117                          |
| Molecular Weight: | Approximately 44 kDa           |

### PROPERTIES

|                     |   |
|---------------------|---|
| AA Sequence         | <pre> MARRRAFP AF   ALRLWSILPC   LLLLRADAGQ   PPEESLYLWI DAHQARVLIG   FEEDILIVSE   GKMAPFTHDF   RKAQQRMPAI PVNIHSMNFT   WQAAGQAEYF   YEFLSLRSLD   KGIMADPTVN VPLLGTVPHK   ASVVQVGFPC   LGKQDGVAAF   EVNVI VMNSE GNTILRTPQN   AIFFKTCQQA   ECPGGCRNGG   FCNERRVCEC PDGFYGP HCE   KALCIPRCMN   GGLCVTPGFC   ICPPGFYGVN CDKANCSTTC   FNGGTCFYPG   KCICPPGLEG   EQCELSKCPQ PCRNGGKCIG   KSKCKCPKGY   QGDLC SKPVC   EPGCGAHGTC HEPNKQC CRE   GWHGRHCNKR   YGASLMHAPR   PAGAGLERHT PSLKKAE DRR   DPPESNYIW </pre> |
| Appearance          | Lyophilized powder.   |
| Formulation         | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.   |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.   |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.   |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.  |
| Shipping            | Room temperature in continental US; may vary elsewhere.   |

### DESCRIPTION

|            |   |
|------------|---|
| Background | The WIF-1 protein plays a crucial role as it binds to WNT proteins, effectively inhibiting their activities. This interaction suggests a pivotal regulatory function in WNT signaling pathways. Beyond its inhibitory role, WIF-1 may also be involved in |
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mesoderm segmentation, hinting at its potential contributions to embryonic development. Furthermore, WIF-1 interacts with MYOC, indicating a possible association with additional cellular processes or signaling cascades. The multifaceted interactions of WIF-1 underscore its importance in modulating WNT-mediated activities and its potential involvement in broader developmental and cellular events.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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