

# Product Data Sheet

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

Cat. No.:	HY-P70982		
Synonyms:	Wnt Inhibitory Factor 1; WIF-1; WIF1		
Species:	Human		
Source:	HEK293		
Accession:	AAH18037.1 (G29-W379)		
Gene ID:	11197		
Molecular Weight:	Approximately 45.0 kDa		

## PROPERTIES

AA Comuoneo						
AA Sequence	GPPQEESLYL	WIDAHQARVL	IGFEEDILIV	ЅЕGКМАРҒТН		
	DFRKAQQRMP	AIPVNIHSMN	F T W Q A A G Q A E	YFYEFLSLRS		
	LDKGIMADPT	VNVPLLGTVP	H K A S V V Q V G F	P C L G K Q D G V A		
	AFEVDVIVMN	SEGNTILKTP	QNAIFFKTCQ	QAECPGGCRN		
	GGFCNERRIC	ЕСРDGFHGPH	CEKALCTPRC	MNGGLCVTPG		
	FCICPPGFYG	VNCDKANCST	ТСFNGGTCFY	PGKCICPPGL		
	EGEQCEISKC	PQPCRNGGKC	IGKSKCKCSK	GYQGDLCSKP		
	VCEPGCGAHG	ТСНЕРNКСQС	QEGWHGRHCN	KRYEASLIHA		
	LRPAGAQLRQ	НТРЅLККАЕЕ	RRDPPESNYI	W		
Biological Activity	Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED <sub>50</sub> this effect is 0.1022-0.1136 μg/mL in the presence of 20 ng/mL Recombinant Human Wnt-3a, corresponding to a specific activity is 8802.8169-9784.7358 units/mg.					
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm filtered solution of 10 mM HAc-NaAc, 150 mM NaCl, 0.5% CHAPS, pH 4.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					
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 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.

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

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