
Product Data Sheet

Product Name: WIF1 Mouse
 Cat. No.: GP25016
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Wnt inhibitory factor 1; WIF-1; Wif1.		
Amino Acid Sequence	GQPPEESLYL WIDAHQARVL IGFEEDILIV SEGKMAPFTH DFRKAQQRMPAIPVNIHSMN FTWQAAGQAE YFYEFSLRS LDKGIMADPT VNVPLLGTVP HKASVVQVGF PCLGKQDGVAAFEVNVIVMN SEGNTILRTP QNAIFFKTCQ QAECPPGGCRN GGFCNERRVC ECPDGFYGPHEKALCIPRC MNGGLCVTPGFCICPPGFYV VNCCKANCST TCFNGGTCFY PGKCICPPGL EGEQCELSKC PQPCRNGGKC IGKSKCKCPK GYQGDLCSPVCEPGCGAHG TCHEPNKCQC REGWHGRHCN KRYGASLMHA PRPAGAGLER HTPSLKKAED RRDPPESNYI WVEHHHHHHH.		
Formulation	WIF1 protein solution (1mg/ml) contains 20mM MES (pH5.5), 1mM DTT, 1mM PMSF and 30% glycerol.		

Introduction

WIF1 binds to wnt proteins and inhibits their activities. WIF1 plays a role in mesoderm segmentation. WNT proteins are extracellular signaling molecules that take part in the control of embryonic development & cancer. WIF1 protein contains a WNT inhibitory factor (WIF) domain and 5 epidermal growth factor (EGF)-like domains. WIF1 takes part in mesoderm segmentation. WIF1 protein is found to be present in fish, amphibia and mammals. WIF1 is a recurrent target in human salivary gland oncogenesis. Downregulation of WIF1 takes part in the development and progression of pleomorphic adenomas. WIF1 is a tumor suppressor, specifically in nonfunctioning pituitary tumors.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

WIF1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 359 amino acids (29-379 a.a.) and having a molecular mass of 39.4 kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57 kDa). WIF1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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