



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human WNT Inhibitory Factor 1

Catalog No.
228-11645

Source
His-5 Cells.

Synonyms

WIF1, WIF-1, Wnt inhibitory factor 1.

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.

Description

WIF1 produced in Hi-5 cells is a single, glycosylated polypeptide chain containing 369 amino acids (29-379 a.a.) and having a molecular mass of 40.5 kDa, (48kDa on SDS-PAGE).

WIF1 is fused to 16 amino acid His Tag at C-Terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The WIF1 protein solution contains 1X PBS pH 7.4, 10% glycerol and 1mM PMSF.

Purity

Greater than 80.0% as determined by SDS-PAGE.

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% HSA or BSA).

Avoid multiple freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Amino Acid Sequence

ADLGPPQEEES	LYLWIDAHQA	RVLIGFEEDI	LIVSEGKMAP	FTHDFRKAQQ
RMPAIPVNIH	SMNFTWQAAG	QAEYFYEFLS	LRSLDKGIMA	DPTVNVPLL
TVPHKASVVQ	VGFPCLGKQD	GVAAFEVDVI	VMNSEGNTIL	KTPQNAIFFK
TCQQAECPPG	CRNGGFCNER	RICECPDGFH	GPHCEKALCT	PRCMNGGLCV
TPGFCICPPG	FYGVNCDKAN	CSTTCFNGGT	CFYPGKCICP	PGLEGEQCEI
SKCPQPCRNG	GKCIGKSKCK	CSKGYQGDLC	SKPVCEPGCG	AHGTCHPNK
CQCQEGWHGR	HCNKRYEASL	IHALRPAGAQ	LRQHTPSLKK	AEERRDPPES
NYIWSGRLVP	RGSHHHHHH.			

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