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## Product Data Sheet

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Product Name: VHL Human  
 Cat. No.: GP24989  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Von Hippel-Lindau disease tumor suppressor; pVHL; Protein G7; VHL; RCA1; VHL1; HRCA1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSHMPRRAENWDE AEVGAE EAGV EEYGPEEDGG EESGAEESGPEESGPEELGA EEEMEAGRPR PVLRSVNSRE PSQVIFCNRS PRVVLVWLN FDGEPQPYPT LPPGTGRRIH SYRGHLWLFER DAGTHDGLLV NQTELVPSL NVDGQPIFAN ITLP.		
Formulation	The Von Hippel-Lindau Protein contains 1x PBS pH-7.4, 2mM EDTA, and 1mM DTT.		

### Introduction

Von Hippel-Lindau disease is a dominant inherited syndrome characterized by the predisposition to develop various kinds of benign and malignant tumors, including clear cell renal carcinomas, pheochromocytomas and hemangioblastomas of the central nervous system and retina. VHL syndrome is caused by germline mutation in the VHL tumor suppressor, and VHL tumors are associated with loss or mutation of the remaining wild-type allele. VHL has two domains: a roughly 100-residue NH<sub>2</sub>-terminal domain rich in  $\beta$  sheet ( $\beta$ -domain) and a smaller  $\alpha$ -helical domain ( $\alpha$ -domain), held together by two linkers and a polar interface. VHL protein is also involved in the degradation of hypoxia-inducible factor (HIF).

### 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.

### Background

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

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Recombinant Human Von Hippel-Lindau Protein b-domain produced in E.Coli is a single, non-glycosylated polypeptide chain containing 174 amino acids (1-154) & having a molecular mass of 19.2 kDa. The Von Hippel-Lindau antigen is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatography techniques.

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