

Recombinant Human VHL, His-tagged

Cat. No. VHL-29832TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-154 of Human Von Hippel Lindau protein. This protein includes a His-tag at the N-terminal end.
Species	Human
Source	E.coli
ProteinLength	1-154 a.a.
Description	<p>Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein. Alternatively spliced transcript variants encoding distinct isoforms have been observed.</p>
Conjugation	HIS
Tissue specificity	Expressed in the adult and fetal brain and kidney.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS, 2mM EDTA, 1mM DTT, pH 7.4
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPRRAENWDE AEVGAE EAGV EEYGPEEDGG EESGAEESGPEESGPEELGA EEEMEAGRPR PVLRSVNSRE PSQVIFCNRS PRVLPVWLN FDGEPQPYPTLPPGTGRRIH SYRGHLWLFR DAGTHDGLLV NQTELFVPSL NVDGQPIFAN ITLP

GENE INFORMATION

Gene Name	VHL von Hippel-Lindau tumor suppressor [Homo sapiens]
Official Symbol	VHL
Synonyms	VHL; von Hippel-Lindau tumor suppressor; von Hippel Lindau syndrome; von Hippel-Lindau disease tumor suppressor; VHL1;
Gene ID	7428
mRNA Refseq	NM_000551
Protein Refseq	NP_000542
MIM	608537
Uniprot ID	P40337
Chromosome Location	3p25.3

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Pathway

Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;

Function

protein binding; transcription factor binding;

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