

# Active Recombinant Human Full Length VHL Protein, His-tagged

**Cat. No.** VHL-3754H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Active Recombinant Human Full Length VHL Protein(Met1~Asp213), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-213 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | Von Hippel Lindau Tumor Suppressor (vHL) is a key tumor suppressor that plays a critical role in regulating cellular responses to oxygen levels. Encoded by the VHL gene, this protein functions primarily as part of a multi-protein E3 ubiquitin ligase complex, which targets specific proteins for degradation via the ubiquitin-proteasome system. To test the effect of vHL on cell proliferation, 293T cells were seeded into triplicate wells of 96-well plates and allowed to attach, replaced with various concentrations of recombinant human vHL. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 $\mu$ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Cell viability was assessed by CCK-8 |

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assay after incubation with recombinant human vHL for 72h. It was obvious that vHL significantly decreased cell viability of 293T cells. The ED50 of recombinant human vHL is 1.607 µg/ml.

|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 27.8kDa                                                                                                                            |
| <b>Endotoxin</b>      | <1.0EU per 1g (determined by the LAL method)                                                                                       |
| <b>Purity</b>         | > 80%                                                                                                                              |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month, at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VHL von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase [ Homo sapiens ]                                                                                                                                                             |
| <b>Official Symbol</b> | VHL                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | VHL; von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase; von Hippel Lindau syndrome , von Hippel Lindau tumor suppressor; von Hippel-Lindau disease tumor suppressor; VHL1; protein G7; elongin binding protein; RCA1; pVHL; HRCA1; |
| <b>Gene ID</b>         | 7428                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_000551                                                                                                                                                                                                                                        |

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|-----------------------|---------------------------|
| <b>Protein Refseq</b> | <a href="#">NP_000542</a> |
| <b>MIM</b>            | <a href="#">608537</a>    |
| <b>UniProt ID</b>     | <a href="#">P40337</a>    |

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