

Recombinant human VHL protein

Catalog Number: VHL3001

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-154aa

UniProt No.

P40337

NCBI Accession No.

NP_000542.1

Alternative Names

Von Hippel-Lindau tumor suppressor isoform 1, Von Hippel-Lindau tumor suppressor isoform 1, HRCA1, RCA1, VHL1, Von Hippel-Lindau tumor suppressor isoform 1 pVHL, G7 protein, Elongin binding protein, HRCA 1, RCA 1, VHL, VHL 1, VHLH, Von Hippel Lindau disease tumor suppressor, von Hippel Lindau syndrome, von Hippel Lindau tumor suppressor,

PRODUCT SPECIFICATION

Molecular Weight

19.2 kDa (174aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. phosphate-buffered Saline (pH 7.4) containing 1mM DTT, 2mM EDTA

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Von Hippel-Lindau disease (VHL) 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

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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 NH₂-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). VHL beta-domain (1-154aa) was overexpressed in *E. coli* and purified by using conventional chromatography techniques

Amino acid Sequence

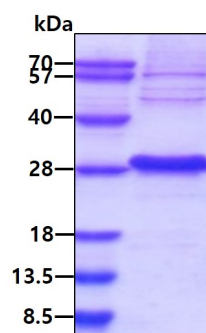
<MGSSHHHHHH SSGLVPRGSH> MPRRAENWDE AEVGAE EAGV EEYGPEEDGG EESGAEESGP EESGPEELGA
EEEMEAGRPR PVLRSVNSRE PSQVIFCNRS PRVVLVWLN FDGEPQPYPT LPPGTGRRIH SYRGHLWLFR DAGTHDGLLV
NQTELVPSL NVDGQPIFAN ITLP

General References

Latif F., et al. (1993) *Science*. 260(5112):1317-20
Duan DR., et al. (1995) *PNAS*. 92(14):6459-63
Maxwell PH., et al. (1999) *Nature* 399(6733):271-5

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain