

Active Recombinant Human CUL5/RNF7

Cat. No. CUL5-149H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CUL5 (amino acid residues 1-780), Rnf7 (amino acid residues 1-113) was expressed in Insect (Sf21) cells.
Species	Human
Source	Insect Cells
ProteinLength	1-780;1-113 a.a.
Description	Cullin-RING-Ligases (CRLs) are one largest class of ubiquitin E3 ligases and the enzymes of the NEDDylation pathway play a pivotal role in the activation of these, akin to ubiquitylation, the E1 activating enzyme (APP-BP1/UBA3 heterodimer) and the E2 conjugating enzymes (UBE2M or UBE2F) are involved in mammalian NEDDylation of the Cullin Ring Ligases (CRLs) (Meyer-Schaller et al., 2009; Huang et al., 2011; Morimoto et al., 2003).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	E3 Ligase Assay: The activity of Cul5/Rnf7 was validated indirectly through its ability to act as a substrate for Neddylolation in the presence of the NEDD8 E3 ligase His-DCNL1 and thioester loaded His-Ube2M-NEDD8. Incubation of Cul5/Rnf7 and thioester loaded His-Ube2M-NEDD8 in the presence or absence of His-DCNL1 at 4°C was compared at two time points T0 and T2 minutes. Increased Neddylolation of the Cul5 subunit in the presence of His-DCNL1 was demonstrated.

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Molecular Mass	Cul5=121kDa; Rnf7=13kDa
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	CUL5 cullin 5 [Homo sapiens]
Official Symbol	CUL5
Synonyms	CUL5; cullin 5; cullin-5; VACM 1; CUL-5; Vasopressin-activated calcium-mobilizing receptor-1; vasopressin-activated calcium-mobilizing receptor 1; Cullin-5 (vasopressin-activated calcium-mobilizing receptor-1); VACM1; VACM-1;
Gene ID	8065
mRNA Refseq	NM_003478
Protein Refseq	NP_003469
MIM	601741
UniProt ID	Q93034
Chromosome Location	11q22.3
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;

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	Disease, organism-specific biosystem; ECS complex, organism-specific biosystem;
Function	calcium channel activity; protein binding; receptor activity; ubiquitin protein ligase binding;

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