

## CUL5 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P702071
Synonyms:	CUL5; Cullin-5; CUL-5; Vasopressin-activated calcium-mobilizing receptor 1; VACM-1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q93034 (A2-A780)
Gene ID:	/
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>CUL5 protein serves as a core component in multiple SCF-like ECS (Elongin-Cullin 2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, orchestrating the ubiquitination and subsequent proteasomal degradation of target proteins. Functioning as a scaffold protein, CUL5 likely contributes to catalysis by precisely positioning the substrate and the ubiquitin-conjugating enzyme. The functional specificity of these E3 ligase complexes relies on the distinct substrate recognition components. ECS(SOCS1) is implicated in directing the ubiquitination of JAK2, while the ECS(KLHDC1) complex is part of the DesCEND pathway, facilitating the ubiquitination and degradation of truncated SELENOS selenoprotein resulting from failed UGA/Sec decoding. Additionally, CUL5, as part of a multisubunit complex, polyubiquitinates monoubiquitinated POLR2A and may form a cell surface vasopressin receptor. In the context of microbial infection, CUL5 appears to play a role in the proteasomal degradation of p53/TP53 stimulated by adenovirus E1B-55 kDa protein.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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