

DCAF15 Protein, Human (Sf9)

Cat. No.:	HY-P701519
Synonyms:	DCAF15; DDB1- and CUL4-associated factor 15
Species:	Human
Source:	Sf9 insect cells
Accession:	Q66K64 (A2-L600)
Gene ID:	90379
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>DCAF15 functions as the substrate-recognition component within the DCX(DCAF15) complex, a cullin-4-RING E3 ubiquitin-protein ligase complex responsible for ubiquitination and subsequent degradation of target proteins. This complex acts as a regulator of natural killer (NK) cell effector functions, potentially by targeting cohesin subunits SMC1A and SMC3 for ubiquitination and degradation. Additionally, DCAF15 may play a role in the activation of antigen-presenting cells (APC) and their interaction with NK cells. Notably, the substrate specificity of the DCX(DCAF15) complex is altered in the presence of aryl sulfonamide anticancer drugs, such as indisulam or E7820. This alteration promotes the ubiquitination and degradation of splicing factor RBM39, leading to splicing defects and cell death in cancer cell lines. These drugs act as molecular glues, facilitating the binding between DCAF15 and RBM39, and also induce ubiquitination and degradation of RBM23 and PRPF39. The unique properties of aryl sulfonamide anticancer drugs highlight DCAF15's pivotal role in modulating substrate specificity and cellular responses within the DCX(DCAF15) complex.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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