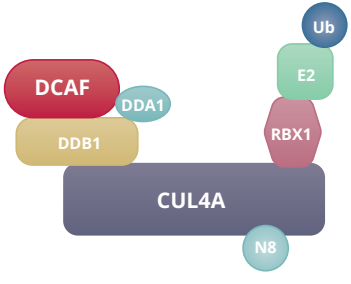
Driving Next-Generation Degradation with

DCAF Ligase Reagents

The DCAF Ligase Family

CRL4^{DCAF} Complexes: Nature's Adaptable Solution for Selective Protein Regulation

- DCAFs (DDB1- and CUL4-associated factors) are substrate receptors for the CRL4A E3 ubiquitin ligase complex.
- They recruit specific proteins for ubiquitylation and proteasomal degradation, ensuring precise pathway control.
- DCAFs regulate key processes including DNA repair, cell cycle progression, and transcription.

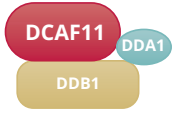


Trilogie's DCAF ligase products enable targeted study of CRL4A-mediated degradation to advance research and discovery.

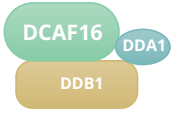
Trilogie's DCAF Ligase Products

High-Quality, Functional Enzymes For Your Research

Our DCAF ligase products provide key components for studying CRL4^{DCAF} complexes and developing next-generation protein degradation strategies



DCAF11 / DDB1 / DDA1
TE3-099

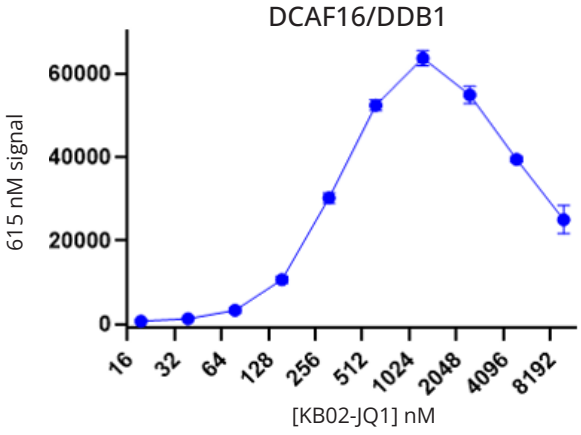


DCAF16 / DDB1 / DDA1
TE3-112

- Human complexes containing DCAF, DDB1, & DDA1
- DDA1 included for enhanced complex stability
- Purified, pre-assembled, and ready-to-use
- Functionally active for biochemical assays
- Ideal for drug discovery and mechanistic studies

Trilogie BIOSCIENCE

DCAF16 - BRD4 - KBO2-JQ1 Ternary Complex Formation Demonstrates Proper Folding and Assembly of DCAF16 / DDB1 / DDA1 Complex



Hook effect analysis of DCAF16 / DDB1 and BRD4 using KBO2-JQ1 degrader. Increasing 615 nm signal is observed across increasing concentrations of KB02-JQ1 reaching a maximum at ~1 µM. Higher concentrations result in a signal decline, consistent with a hook effect.

Zhang, X. *et al.* (2019) Nat Chem Biol. 15(7):737–746

Product	Product Code
DCAF11 / DDB1 / DDA1	TE3-099
DCAF16 / DDB1 / DDA1	TE3-112

Companion Product	Product Code
BRD4 (BD1)	TAP-077