Cereblon- and VHL-Binding Molecule Screening TR-FRET Assay Kits for PROTAC

Aurora Biolabs LLC
7270 Trade St. Ste. 103
San Diego, CA 92121
1-858-215-4510
info@aurorabiolabs.com

Why Choose Aurora Biolabs TR-FRET Inhibitor Screening Assay Kits?

Proven Convenience

- All reagents & rxn plate included.

Components

Catalog number	Item	Amount	Storage
845225-B	VHL Binding assay buffer	25 mL	-20°C
845225-M	Recombinant human VHL-5C	40 µL	-80°C
84032			
44732			

Components

Catalog number	Item	Amount	Storage
272625-B	CRBN Binding Assay Buffer	20 mL	-20°C
272625-M	Recombinant human CRBN-4C	80 µL	-80°C
852461	Fluorescence-labeled Thalidomide	15 µL	-80°C
44732	Fluorescence labeled anti-Tag1 antibody	20 µL	-80°C
	384-well microplate	1	Room temperature

Proven Procedure

- Optimized step-by-step protocols provided.

Protocol Summary

Component	Negative Control	Positive Control	Inhibitor Test
assay buffer	4 µl		
VHL-5C protein		4 µl	4 µl
compound dilution Buffer (Assay buffer or 10% DMSO)	2 µl	2 µl	

Protocol Summary

Component	Negative Control	Positive Control	Inhibitor Test
assay buffer	4 µl		
CRBN-4C protein		4 µl	4 µl
compound dilution Buffer (Assay buffer or 10% DMSO)	2 µl	2 µl	
Inhibitor solution			2 µl
FL-Thalidomide	4 µl	4 µl	4 µl
Dye solution	10 µl	10 µl	10 µl
Total Volume	**20 µl**	**20 µl**	**20 µl**

Incubate at room temperature for 60 minutes.

Sensitivity Guaranteed

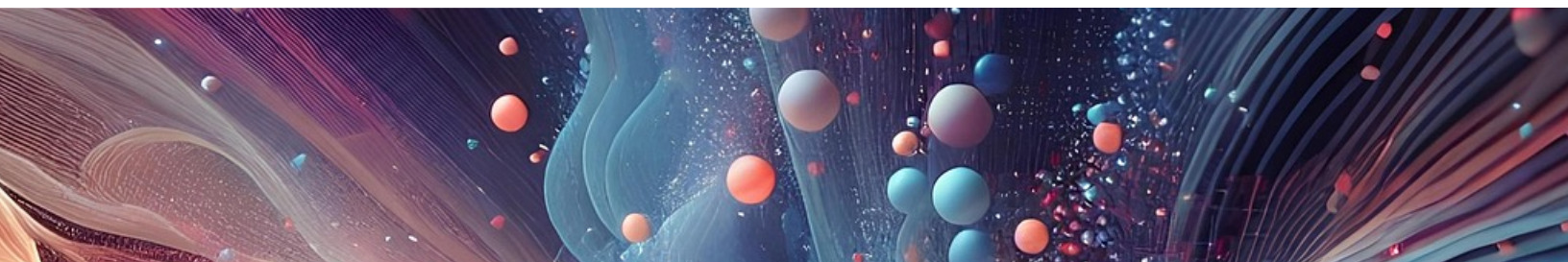
- TR-FRET Asssy is well known to be more sensitive than traditional enzyme-based assays due to the lanthanide-based donor fluorophores, which have long fluorescence lifetimes, and time-resolved detection, which minimizes background fluorescence interference.

High Throughput Capable

- TR-FRET Asssy can be run in 384-well plates and easily automated on different platforms. Bulk reagents for 4,000 assay data points and more are also available.

Unparalleled Technical Support

- Our assay scientists and developers have decades of experience working on assays for drug discovery and optimization. Assay-related issues are quickly answered and resolved by the same scientists and developers, who have intimate and expert knowledge on the assays and can address any issues with speed and accuracy.



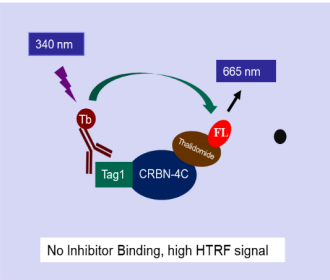
VHL Assay Principle And Performance

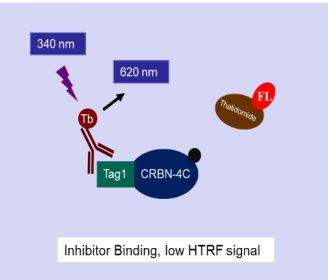
Targeted protein degradation is a wide-ranging therapeutic strategy that utilizes the ubiquitin-protease pathway to target and eliminate disease-causing proteins in cancer, immune diseases, and infections. PROTAC and Molecular Glue are two popular approaches for bringing the target proteins to the ubiquitination machinery.

The Aurora Biolabs TR-FRET Cereblon and VHL Binding Assay Kits are high-throughput assay kits for screening for compounds that bind to the Cereblon and VHL E3 ubiquitin ligases. Cereblon is the most common ligase used in the design of PROTACs. The majority of PROTACs currently in clinical trials is designed with Cereblon. Aurora Biolabs can also custom design a similar screening assay with E3 ubiquitin ligase of your choice.

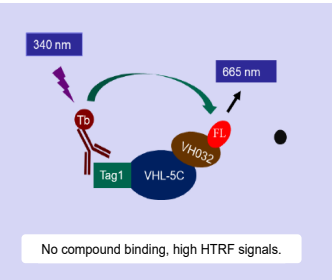
Cereblon & VHL TR-FRET Assays Nuts and Bolts

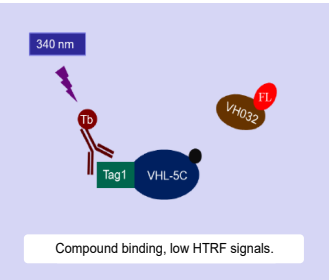
Cereblon



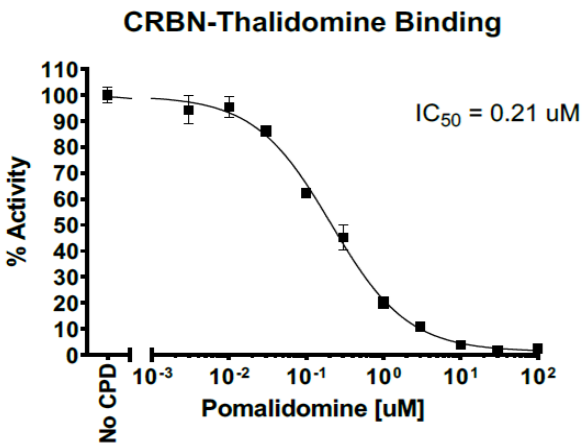


VHL

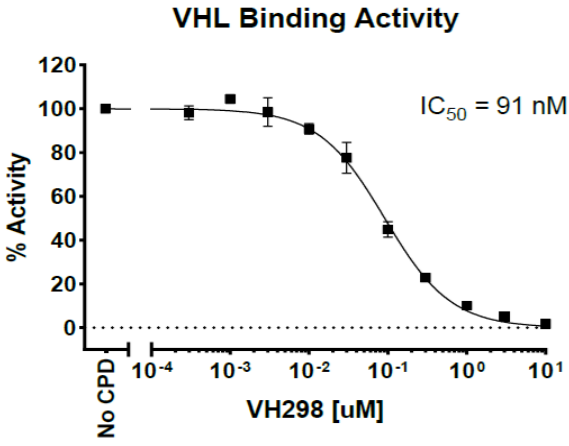




Performance Characteristics



- Binding curve of Cereblon in the presence of increasing concentrations of Pomalidomine.



- Binding curve of VHL in the presence of increasing concentrations of VH298 molecule.