Gator Bio for PROTAC Analysis The Power of Next Generation BLI

Overview

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PROTAC (proteolysis targeting chimera) is a burgeoning field in drug development. Briefly, PROTACs have action by inducing the proteolysis of selected target proteins. These molecules have two domains separated by a linker. One side can bind an E3 ubiquitin ligase while the other side is selective for the protein being targeting for degradation.

Gator Bio BLI and our recently launched SMAP biosensors (Cat #1600011) enable the direct measurement of all three components of a PROTAC complex.

Measurement of PROTAC complex formation using Gator Bio BLI

BENEFITS

- Ability to measure all three binding events
- Rapid assays performed in parallel
- Sensitive enough to measure direct PROTAC binding (down to 150 da)

Experimental Materials:

dBET (a PROTAC targeting BET bromodomains)

Biotinylated BRD4 (Bromodomain-containing protein 4)

Cereblon (forms an E3 ubiquitin ligase complex)



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