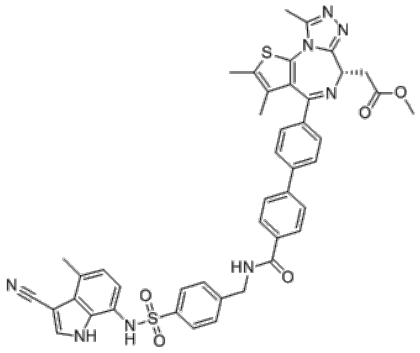
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	IBG1
Cat. No.	:	PC-21846
CAS No.	:	2684292-71-3
Molecular Formula	:	$C_{44}H_{38}N_8O_5S_2$
Molecular Weight	:	822.96
Target	:	PROTAC
Solubility	:	10 mM in DMSO



CAS: 2684292-71-3

Biological Activity

IBG1 is a PROTAC-like, specific degrader of **BET bromodomain** BRD2 and BRD4 with DC50 of 0.15 nM (BRD4), which comprises the BET family bromodomain inhibitor JQ1 tethered to E7820, functions via CRL4-DCAF16.
IBG1 does not affect paralogue BRD3.
IBG1 functions via CRL-mediated ubiquitination and proteasomal degradation, and an unexpected DCAF15-independent mechanism.
IBG1-induced degradation of BRD2 and BRD4 is dependent on CRL4–DCAF16, IBG1 recruits DCAF16 to degrade BRD4.
IBG1 enhances the intrinsic interaction between the tandem bromodomain region of BRD4 and DCAF16.
IBG1 bivalently binds both BRD4 bromodomains.

References

Oliver Hsia, et al. ***Nature.*** 2024 Feb 21. doi: 10.1038/s41586-024-07089-6.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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