

# OICR-40155: A chemical handle for DCAF1

Version 1.0 (24th April 2025)

## Web link for more details: https://www.thesgc.org/chemical-handles/oicr-40155

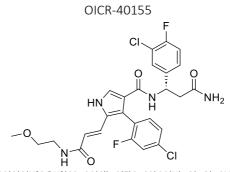
#### **Overview**

The Structural Genomics Consortium (SGC) in collaboration with the Drug Discovery Program at the Ontario Institute for Cancer Research (OICR) has discovered a chemical handle OICR-40155 for DCAF1 (DDB1-Cul4 associated factor 1).

### **Summary**

Chemical handle name	OICR-40155
Negative control compound	Please see comments on website for designing a negative
	control.
Target(s) (synonyms)	DCAF1 (VprBP)
Recommended in vitro assay concentration	N/A
Suitability for <i>in</i> vivo use and recommended dose	Handles are not for in vivo use
Publications	
Related chemical probe	OICR-41103
In vitro assay(s) used to characterise	SPR, DSF
Cellular assay(s) for target-engagement	NanoBRET, HiBiT CETSA
Chemical Probes.org	

#### **Chemical Handle Structure and Use**



 $SMILES: FC1=C(C=CC(CI)=C1)C(C(N[C@H](C2=CC(CI)=C(F)C=C2)CC(N)=O)=O)=CN3)=C3/C=C/C(NCCOC)=O\\InChiKey: GUWRELPYWXMMMM-WMWRJIBUSA-N$ 

Molecular weight: 565.4

Storage: As a dry powder or as DMSO stock solutions (10 mM) at -20 °C.

DMSO stocks beyond 3-6 months or 2 freeze/thaw cycles should be tested for activity before use

Dissolution: Soluble in DMSO up to 50 mM; use only 1 freeze/thaw cycle per aliquot

## **Chemical Handle Profile**

In vitro Potency & Selectivity: In a SPR assay, OICR-40155 binds DCAF1 (WDR) with KD = 8 nM.

Potency in Cells and Cellular Target Engagement: In an intact cell-based nanoBRET assay, OICR-40155 inhibited the interaction between DCAF1 WDR and a tracer (based on a literature DCAF1 ligand) with EC<sub>50</sub>  $> 1 \mu M$ .