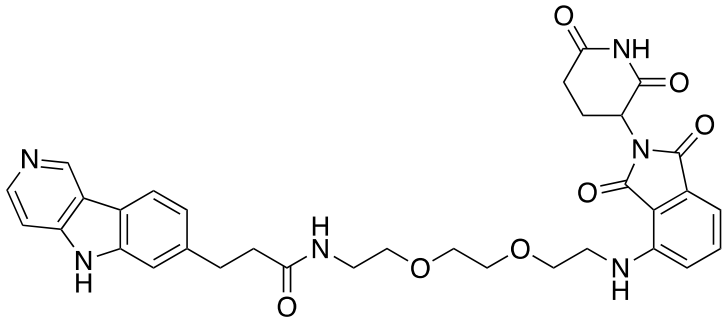
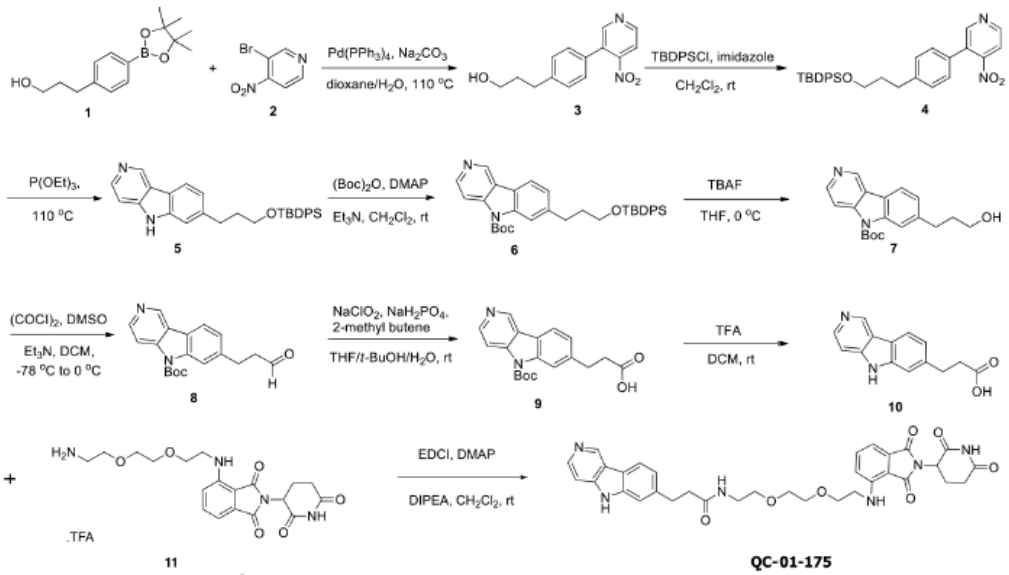
QC-01-175-1



Chemical Formula: $C_{33}H_{34}N_6O_7$
Molecular Weight: 626.67

Category	Parameter	Description
Compound	Name	QC-01-175-1
	Citation	Silva et al. eLife 2019;8:e45457. DOI: https://doi.org/10.7554/eLife.45457
	Chemical descriptors	O=C(NCCOCCOCCNC1=CC=CC2=C1C(N(C2=O)C3CCC(NC3=O)=O)=O)CCC4=CC5=C(C6=C(C=CN=C6)N5)C=C4
	Chemical name	N-(2-(2-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)amino)ethoxy)ethoxy)ethyl)-3-(5H-pyrido[4,3-b]indol-7-yl)propanamide
	Entries in chemical databases	N/A
	Availability	N/A
	Papers that use the compounds	N/A
	Additional comments	Negative control QC-03-075-1 also available
In vitro profiling	Target (potency)	P-Tau $DC_{50,\ 24\ h}$ ~ 100 nM in patient iPSC derived FTD neurons harboring MAPT A152T mutation
	Target (potency)	N/A
	Selectivity	iMiD targets ZFP91, ZN653, ZN827 also degraded at 4 h, 1 µM in patient iPSC derived FTD neurons harboring MAPT A152T mutation
	Potential reactivity	N/A
	SAR	Manuscript in preparation
	Mechanism of inhibition	Targeted degradation
	Structure of target-probe complex	N/A
	Additional comments	
Cellular profiling	Validation of cellular target	Western blot, ELISA assay
	Validation of cellular specificity	Global proteomics
	Additional comments	
Pharmacodynamics		
Pharmacokinetics		

Synthetic scheme



Scheme 1. Synthesis route for the tau degrader QC-01-175.