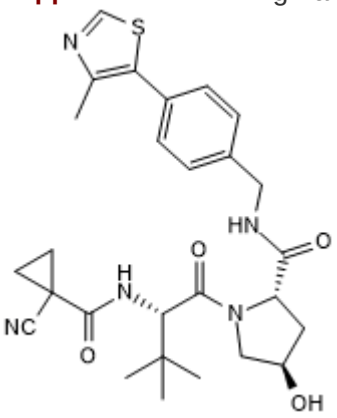
VH298

Cat. # PC-1003

Background: High-affinity inhibitor of E3 ubiquitin ligase VHL (K_d = 80-90 nM). Blocks interaction between VHL and HIF-α downstream of HIF-α hydroxylation, initiating hypoxic response. Results in time- and concentration-dependent accumulation of hydroxylated HIF-α, and upregulates mRNA and protein levels of HIF target genes. Cell permeable.

Application: High-affinity inhibitor of VHL



Product Information

Purity:	>98%
MW:	523.65
Formula:	$C_{27}H_{33}N_5O_4S$
CAS No.	2097381-85-4
Physical State:	Lyophilized white powder
Quantity:	5mg; 10mg; 25 mg
Solubility:	50 mg/mL in DMSO; 50 mg/mL in Ethanol
Storage:	Store desiccated as supplied at -20°C for up to 3 years. Store solutions at -80°C for up to 6 months or -20°C for up to 1 month.

References

1. **Frost** *et al* (2015) Potent and selective chemical probe of hypoxic signalling downstream of HIF-α hydroxylation via VHL inhibition. Nat.Commun. ***7*** 13312 PMID: 27811928
2. **Soares** *et al* (2018) Group-based optimization of potent and cell-active inhibitors of the von Hippel-Lindau (VHL) E3 ubiquitin ligase: structure-activity relationships leading to the chemical probe (2*S*,4*R*)-1-((*S*)-2-(1-Cyanocyclopropanecarboxamido)-3 J.Med.Chem. ***61*** 599 PMID: 28853884