

Product Data Sheet

Product Name: ACBI2
Cat. No.: GC73359

Chemical Properties

Cas. No. 2913161-19-8

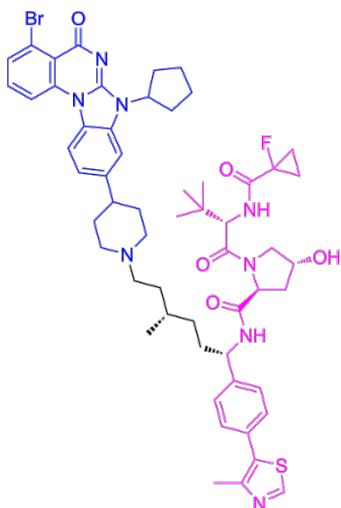
Formula $C_{56}H_{68}BrFN_8O_5S$ M.Wt 1064.16

Solubility DMSO : 125 mg/mL (117.46 mM; Storage -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

ACBI2 is a highly potent and orally active VHL PROTAC SMARCA2 degrader (EC₅₀: 7 nM), which selectively degrades SMARCA2 with a DC₅₀ value of 1 nM in RKO cells. ACBI2 can be used in the research of lung cancer.

ACBI2 degrades SMARCA2 and SMARCA4 in RKO cells, with DC₅₀s of 1 nM and 32 nM respectively[1]. ACBI2 (0.1 nM-1 μM, 4-18 h) rapidly and completely degrades SMARCA2 in two

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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sensitive cell lines (A549 and NCI-H1568)[1].ACBI2 (1 nM-1 μ M, 18 h) significantly degrades SMARCA2 with clear selectivity over SMARCA4[1].ACBI2 (0-1 μ M; 18 h) dose-dependently degrades SMARCA2 in human whole blood[1].

ACBI2 (80 mg/kg, p.o., once daily) significantly inhibits tumor growth in an A549 xenograft mice model[1].ACBI2 (5-100 mg/kg, p.o., tumors collected 24 or 48 h after treatment) dose-dependently degrades tumor SMARCA2 in A549 engrafted tumor bearing mice (IHC staining)[1].ACBI2 (30 mg/kg, p.o., mice) shows oral bioavailability of 22%[1].

References:

[1]. Kofink C, et al. A selective and orally bioavailable VHL-recruiting PROTAC achieves SMARCA2 degradation in vivo. Nat Commun. 2022 Oct 10;13(1):5969.

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