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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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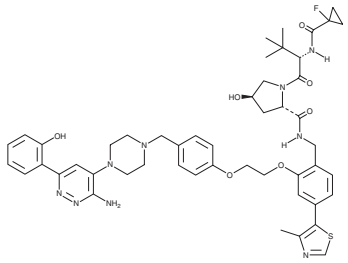
PRODUCT INFORMATION

ACBI1

Item No. 36612

CAS Registry No.:	2375564-55-7
Formal Name:	(2S,4R)-N-(2-(2-(4-((4-(3-amino-6-(2-hydroxyphenyl)pyridazin-4-yl)piperazin-1-yl)methyl)phenoxy)ethoxy)-4-(4-methylthiazol-5-yl)benzyl)-1-((S)-2-(1-fluorocyclopropane-1-carboxamido)-3,3-dimethylbutanoyl)-4-hydroxypyrrolidine-2-carboxamide
MF:	$C_{49}H_{58}FN_9O_7S$
FW:	936.1
Purity:	≥95%
UV/Vis.:	λ_{max}: 266 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

ACBI1 is supplied as a solid. A stock solution may be made by dissolving the ACBI1 in the solvent of choice, which should be purged with an inert gas. ACBI1 is soluble in DMSO.

Description

ACBI1 is a proteolysis-targeting chimera (PROTAC) composed of a ligand for BRM, also known as SMARCA2, BRG1, also known as SMARCA4, and polybromo-1D (PBRM1), which are components of switch/sucrose nonfermentable (SWI/SNF) chromatin remodeling complexes, conjugated to a von Hippel-Lindau (VHL) E3 ligase ligand.[1] It induces degradation of BRM, BRG1, and PBRM1 with 50% degradation concentration (DC_{50}) values of 6, 11, and 32 nM, respectively, in MV4-11 acute myeloid leukemia (AML) cells. ACBI1 decreases the proliferation of MV4-11 cells (IC_{50} = 28 nM) but is inactive against NCI H1703 non-small cell lung cancer (NSCLC) cells, which do not express BRM or BRG1. It prevents exhaustion of isolated human $CD8^+$ T cells when used at concentrations of 50 and 100 nM.[2]

References

1. Farnaby, W., Koegl, M., Roy, M.J., *et al.* BAF complex vulnerabilities in cancer demonstrated via structure-based PROTAC design. *Nat. Chem. Biol.* **15(7)**, 672-680 (2019).
2. Battistello, E., Hixon, K.A., Comstock, D.E., *et al.* Stepwise activities of mSWI/SNF family chromatin remodeling complexes direct T cell activation and exhaustion. *Mol. Cell.* **S1097-2765(23)**, 00153-3 (2023).

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