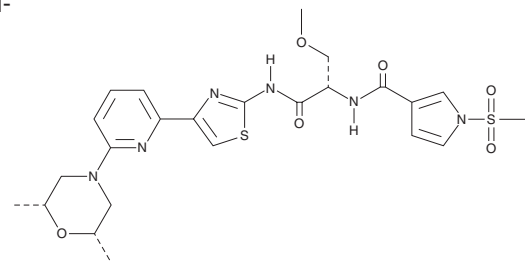
PRODUCT INFORMATION

FHD-286

Item No. 41864

CAS Registry No.:	2671128-05-3
Formal Name:	N-[(1S)-2-[[4-[6-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-2-pyridinyl]-2-thiazolyl]amino]-1-(methoxymethyl)-2-oxoethyl]-1-(methylsulfonyl)-1H-pyrrole-3-carboxamide
MF:	$C_{24}H_{30}N_6O_6S_2$
FW:	562.7
Purity:	≥98%
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

FHD-286 is supplied as a solid. A stock solution may be made by dissolving the FHD-286 in the solvent of choice, which should be purged with an inert gas. FHD-286 is slightly soluble (0.1-1 mg/ml) in ethanol, acetonitrile, and DMSO

Description

FHD-286 is an inhibitor of Brahma homolog (BRM), also known as SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 2 (SMARCA2), and Brahma-related gene 1 (BRG1), also known as SMARCA4.[1] It induces differentiation of, and reduces viability in, MV4-11 and MOLM-13 acute myeloid leukemia (AML) cells, which express mixed-lineage leukemia 1 (MLL1) rearrangements, and OCI-AML-3 AML cells, which express mutant nucleophosmin 1 (NPM1), when used at a concentration of 30 nM. FHD-286 (100 nM) decreases BRG1-chromatin and BRM-chromatin associations in MOLM-13 cells. *In vivo*, FHD-286 (1.5 mg/kg) decreases tumor burden and increases survival in patient-derived xenograft (PDX) mouse models of AML when used alone or in combination with venetoclax (ABT-199; Item No. 16233), OTX015 (Item No. 15947), SNDX-5613 (Item No. 40758), or decitabine (Item No. 11166).

Reference

1. Fiskus, W., Piel, J., Collins, M., *et al.* BRG1/BRM inhibitor targets AML stem cells and exerts superior preclinical efficacy combined with BET or menin inhibitor. *Blood* **143(20)**, 2059-2072 (2024).

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