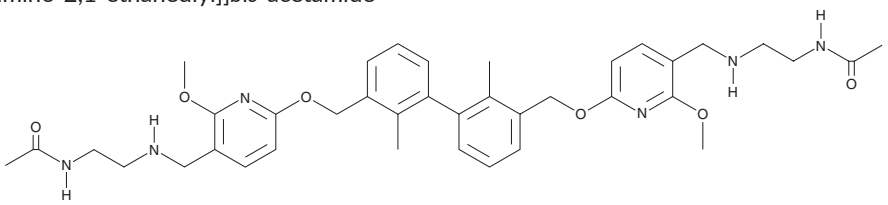
PRODUCT INFORMATION

LH1306

Item No. 28727

CAS Registry No.:	2182653-84-3
Formal Name:	N,N′-[(2,2′-dimethyl[1,1′-biphenyl]-3,3′-diyl)*bis*[methyleneoxy(6-methoxy-2,5-pyridinediyl)methyleneimino-2,1-ethanediyl]]*bis*-acetamide
MF:	$C_{38}H_{48}N_6O_6$
FW:	684.8
Purity:	≥95%
UV/Vis.:	λ_{max}: 283 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

LH1306 is supplied as a crystalline solid. A stock solution may be made by dissolving the LH1306 in the solvent of choice, which should be purged with an inert gas. LH1306 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of LH1306 in these solvents is approximately 0.25 and 1 mg/ml, respectively.

Description

LH1306 is an inhibitor of the interaction between programmed cell death 1 (PD-1) and its ligand PD-L1 that has an IC_{50} value of 25 nM in a homologous time-resolved fluorescence (HTRF) assay.[1] It increases the activation of Jurkat cells expressing PD-1 in co-culture with U2OS or CHO cells expressing PD-L1 (EC_{50}s = 334 and 4,214 nM, respectively, in reporter assays).

References

1. Basu, S., Yang, J., Xu, B., *et al.* Design, synthesis, evaluation, and structural studies of C_2-symmetric small molecule inhibitors of programmed cell death-1/programmed death-ligand 1 protein-protein interaction. *J. Med. Chem.* **62(15),** 7250-7263 (2019).

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