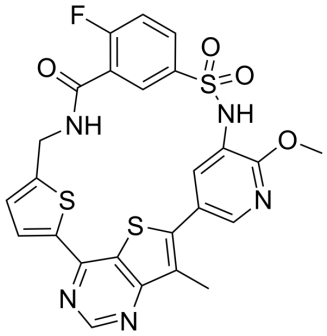
IBL-302

Cat. No.:	HY-157169
CAS No.:	1414455-21-2
Molecular Formula:	$C_{25}H_{18}FN_5O_4S_3$
Molecular Weight:	567.63
Target:	Pim; mTOR; Akt; PI3K
Pathway:	JAK/STAT Signaling; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IBL-302 (AMU302) is an orally available dual-signaling inhibitor of PIM and PI3K/AKT/mTOR with activity against breast cancer and neuroblastoma. IBL-302 demonstrated in vivo efficacy in a nude mouse xenograft model, inhibiting trastuzumab (HY-P9907) resistance challenges. IBL-302 also enhances the effects of common cytotoxic chemotherapy drugs cisplatin (HY-17394), doxorubicin (HY-15142A), and etoposide (HY-13629)[1][2][3].

REFERENCES

[1]. Kennedy SP et al. Preclinical evaluation of a novel triple-acting PIM/PI3K/mTOR inhibitor, IBL-302, in breast cancer. Oncogene. 2020 Apr;39(14):3028-3040.

[2]. Martínez-González S, et al. Macrocyclization as a Source of Desired Polypharmacology. Discovery of Triple PI3K/mTOR/PIM Inhibitors. ACS Med Chem Lett. 2021 Nov 2;12(11):1794-1801.

[3]. Kennedy S P, et al. Evaluation of dual-acting PIM/PI3K inhibitor IBL-302 in preclinical breast cancer models[J]. Cancer Research, 2018, 78(13_Supplement): 2932-2932.

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