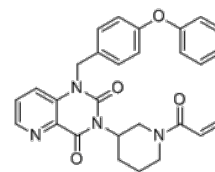


Product Name : EG-011
Cat. No. : PC-49819
CAS No. : 2377113-41-0
Molecular Formula : C₂₈H₂₆N₄O₄
Molecular Weight : 482.54
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

EG-011 (WASP activator EG-011, EG011) is a first-in-class, small molecule activator of the auto-inhibited form of Wiskott-Aldrich syndrome protein (**WASp**) with selective anti-tumor activity in lymphomas.

The anti-tumor activity of EG-011 was maintained in the resistant cell line derived from the MZL VL51 with secondary resistance to ibrutinib (IC₅₀: 500 nM in both parental and resistant), while it was higher in the MZL model with resistance to PI3Kdelta inhibitor derived from VL51 (IC₅₀: 100 nM).

The copanlisib-resistant MZL VL51 (IC₅₀: 2 μM) and Karpas1718 idelalisib-resistant (5 nM) showed a slightly decreased sensitivity to EG-011 (Karpas1718 parental, IC₅₀: 1 nM).

The AMO-1 carfilzomib resistant cell line showed an IC₅₀ to EG-011 treatment that was more than 20 times lower than the carfilzomib sensitive parental cell line (IC₅₀: 250 nM vs 6 μM).

EG-011 is a novel small molecule with in vitro and in vivo anti-tumor activity against lymphoma and acute leukemias, but, at least so far, no activity in solid tumor models (Gaudio et al AACR 2019).

References

Eugenio Gaudio, et al. Cancer Res (2019) 79 (13_Supplement): 4796.

PCT/EP2018/057678

F. Spriano, et al. The first-in-class WASP activator EG-011 is active in lymphoma and multiple myeloma cell lines resistant to FDA approved compounds. Eur J Cancer, VOLUME 174, SUPPLEMENT 1, S107, OCTOBER 2022.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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