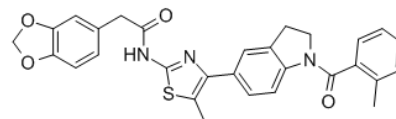


Product Name : ML-385
Cat. No. : PC-42187
CAS No. : 846557-71-9
Molecular Formula : C₃₁H₂₉N₃O₂S
Molecular Weight : 507.6459
Target : Keap1-Nrf2
Solubility : DMSO: ≥ 30 mg/mL



Biological Activity

ML 385 is a first-in-class small molecule inhibitor of **NRF2** that binds to Neh1 DNA binding domain of NRF2 (IC₅₀=1.9 μM) and inhibits the downstream target gene expression.

ML-385 blocks the binding of the NRF2-MAFG complex to the ARE sequence in the promoter and reduces transcriptional activity.

ML-385 inhibits NRF2 signaling in lung cancer cells with KEAP1 mutations, shows selective cytotoxicity in NSCLC cells with KEAP1 mutations and potentiates the toxicity chemotherapy drugs.

ML-385 shows anti-tumor activity in NSCLC both as a single agent and in combination with carboplatin in preclinical models of NSCLC.

References

Singh A, et al. *ACS Chem Biol.* 2016 Nov 18;11(11):3214-3225.

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

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