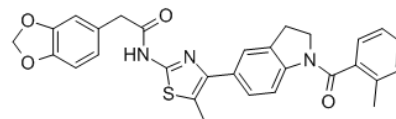


**Product Name** : ML385  
**Cat. No.** : PC-42187  
**CAS No.** : 846557-71-9  
**Molecular Formula** : C<sub>31</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub>S  
**Molecular Weight** : 507.6459  
**Target** : Keap1-Nrf2  
**Solubility** : DMSO: ≥ 30 mg/mL



### Biological Activity

ML385 is a first-in-class small molecule inhibitor of **NRF2** that binds to Neh1 DNA binding domain of NRF2 (IC<sub>50</sub>=1.9 μM) and inhibits the downstream target gene expression.

ML385 blocks the binding of the NRF2-MAFG complex to the ARE sequence in the promoter and reduces transcriptional activity.

ML385 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.

ML385 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!**

E-mail: tech@probechem.com