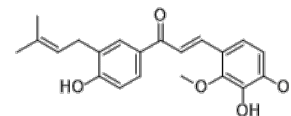


**Product Name** : Licochalcone D  
**Cat. No.** : PC-23577  
**CAS No.** : 144506-15-0  
**Molecular Formula** : C<sub>21</sub>H<sub>22</sub>O<sub>5</sub>  
**Molecular Weight** : 354.40  
**Target** : STING  
**Solubility** : 10 mM in DMSO



## Biological Activity

Licochalcone D (Lico D) is a lycyrrhiza inflata-derived chalcone, potent and selective STING inhibitor, covalently modifies the Cys148 residue of STING and inhibits STING oligomerization.

Licochalcone D (Lico D) significantly inhibits the degranulation in RBL-2H3 cells with low cytotoxicity.

Licochalcone D (Lico D) significantly inhibited the Ca<sup>2+</sup> influx and phosphorylation of extracellular signal regulated kinase (ERK) and MEK.

Licochalcone D (Lico D) inhibits the recruitment of TBK1 and the nuclear translocation of IRF3 and NF-κB.

Licochalcone D (Lico D) ameliorates the inflammatory phenotype in Trex1-1- mice and inhibits the progression of DSS-induced colitis and AOM/DSS-induced colitis-associated colon cancer (CAC).

## References

Zhang Y, et al. Sci China Life Sci. 2024 Aug 22. doi: 10.1007/s11427-024-2703-6.

Tanifuji S, et al. Int Immunopharmacol. 2010 Jul;10(7):769-76.

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

E-mail: tech@probechem.com