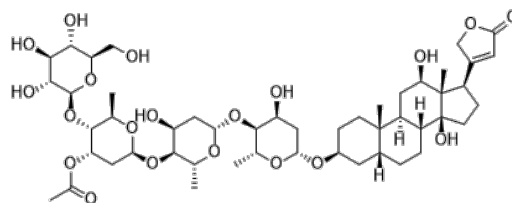


**Product Name** : Lanatoside C  
**Cat. No.** : PC-24059  
**CAS No.** : 17575-22-3  
**Molecular Formula** : C<sub>49</sub>H<sub>76</sub>O<sub>20</sub>  
**Molecular Weight** : 985.13  
**Target** : E3 Ubiquitin Ligase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Lanatoside C is a cardiac glycoside, has an IC<sub>50</sub> of 0.19 μM for dengue virus (DENV) infection in HuH-7 cells, also potently inhibits FOXP3 activity by causing degradation of RUNX1, directly binds the E3 ligase STUB1 (ITC, K<sub>a</sub>=13 μM).

Lanatoside C effectively inhibits all four serotypes of dengue virus, flavivirus Kunjin, alphavirus Chikungunya, Sindbis virus and the human enterovirus 71.

Lanatoside C increases polyubiquitination and proteasomal degradation of RUNX1, disrupts the FOXP3/RUNX1 complex.

Lanatoside C inhibits Tregs activity and promotes antitumor immunity in a mouse primary lung cancer model.

Lanatoside C synergizes with PD-1 inhibitor to shrink lung cancers driven by mutant KRAS in a mouse model.

## References

Cheung YY, et al. Antiviral Res. 2014 Nov;111:93-99.

Zhou Q, et al. EMBO Mol Med. 2025 Feb 20. doi: 10.1038/s44321-025-00200-y.

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

E-mail: tech@probechem.com