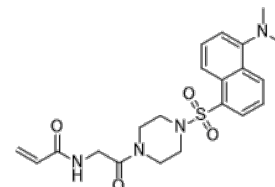


**Product Name** : TG2 inhibitor 1-155  
**Cat. No.** : PC-24404  
**CAS No.** : 1592640-75-9  
**Molecular Formula** : C<sub>21</sub>H<sub>26</sub>N<sub>4</sub>O<sub>4</sub>S  
**Molecular Weight** : 430.52  
**Target** : Glutaminase  
**Solubility** : 10 mM in DMSO



CAS: 1592640-75-9

## Biological Activity

TG2 inhibitor 1-155 (TG2 inhibitor 3h) is a potent, selective small molecule **Transglutaminase 2 (TG2, TGase2, TGM2)** inhibitor with IC<sub>50</sub> of 6.1 nM, >1000-fold selective over TG1, TG3, TG6, and Factor XIIIa (FXIIIa).

1-155 significantly inhibited collagen deposition in the lungs in the bleomycin-challenged mice. causes a significant reduction in a key myofibroblast marker  $\alpha$  smooth muscle actin and TG2.

1-155 treatment (60 mg/kg twice daily via oral delivery) significantly improved several key lung function parameters, such as cord compliance, vital capacity, and dynamic compliance.

## References

Wang Z, et al. *Cells*. 2025 Mar 26;14(7):497.

Eduard Badarau, et al. *Chem Biol*. 2015 Oct 22;22(10):1347-61.

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

E-mail: tech@probechem.com