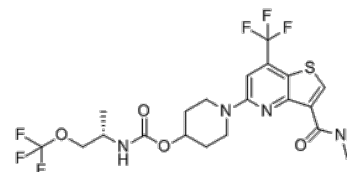


**Product Name** : UGT8 inhibitor 19  
**Cat. No.** : PC-21184  
**CAS No.** : 2414349-93-0  
**Molecular Formula** : C<sub>20</sub>H<sub>22</sub>F<sub>6</sub>N<sub>4</sub>O<sub>4</sub>S  
**Molecular Weight** : 528.47  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



CAS: 2414349-93-0

## Biological Activity

UGT8 inhibitor 19 (UGT8-IN-1) is a highly potent, selective and orally active ceramide galactosyltransferase enzyme **UGT8** inhibitor with IC<sub>50</sub> of 0.2 nM.

UGT8 inhibitor 19 is selective for inhibition of UGT8 compared to other UGT enzymes (IC<sub>50</sub> > 10 μM for UGT1A1, UGT1A6, UGT2B7, UGT2B15, and UGT2B17) and a Cerep panel of around 60 kinases.

UGT8 inhibitor 19 demonstrated dose dependent inhibition of incorporation of <sup>13</sup>C-Gal into GalCer and SFT in adult mice kidney with an estimated ED<sub>50</sub> of 1 mg/kg for inhibition of both SFT and GalCer.

UGT8 inhibitor 19 showed efficacy in the in vivo pharmacodynamic models, indicating the potential to treat metachromatic leukodystrophy (MLD).

## References

Sukanthini Thuraiatnam, et al. *ACS Med Chem Lett.* 2020 Jun 16;11(10):2010-2016.

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

E-mail: tech@probechem.com