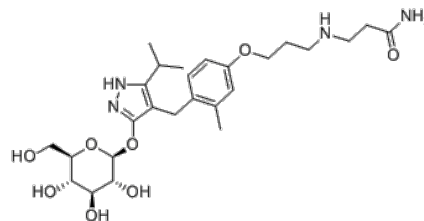


**Product Name** : KGA-2727  
**Cat. No.** : PC-63375  
**CAS No.** : 666842-36-0  
**Molecular Formula** : C<sub>26</sub>H<sub>40</sub>N<sub>4</sub>O<sub>8</sub>  
**Molecular Weight** : 536.626  
**Target** : SGLT  
**Solubility** : 10 mM in DMSO



## Biological Activity

KGA-2727 is a potent, selective **SGLT1** inhibitor with  $K_i$  of 97.4 nM, >100-fold selectivity over SGLT2. KGA-2727 attenuates the elevation of plasma glucose after glucose loading in streptozotocin-induced diabetic rats, preserves glucose-stimulated insulin secretion and reduces urinary glucose excretion with improved morphological changes of pancreatic islets and renal distal tubules in ZDF rats.

## References

- Shibazaki T, et al. *J Pharmacol Exp Ther*. 2012 Aug;342(2):288-96.  
Dobbins RL, et al. *Am J Physiol Gastrointest Liver Physiol*. 2015 Jun 1;308(11):G946-54.

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

E-mail: tech@probechem.com