
Product Name	: T-1095
Synonyms	: —
Cat No.	: M28785
CAS Number	: 209746-59-8
Molecular Formula	: C ₂₆ H ₂₈ O ₁₁
Formula Weight	: 516.5
Chemical Name	: —
Description	<p>T-1095 is an inhibitor of renal glucose reabsorption and the expression of Na⁺-glucose cotransporters (SGLTs) and facilitative glucose transporter 2 (GLUT2). (In Vivo): Administration of 0.03% and 0.1% (wt/wt diet) T-1095 to STZ rats for 4 weeks improved the hyperglycemia and dose-dependently decreased HbA1c. Moreover, treatment with 0.1% (wt/wt diet) T-1095 in STZ rats for 8 weeks not only reduced blood glucose and HbA1c, levels but also prevented the elevation of urinary albumin levels and kidney weight and the development of epithelial vacuolation. The expression of renal SGLT2, a major glucose transporter in the kidney, was not different in normal, STZ, and T-1095-treated STZ rats. In contrast, the elevated renal GLUT2 level in STZ rats was suppressed by T-1095.</p>
Pathway	: GPCR/G Protein
Target	: SGLT
Receptor	: SMS2
Solubility	: —
SMILES	: <chem>COC(=O)OC[C@H]1O[C@@H](Oc2cc(C)cc(O)c2C(=O)CCc2ccc3occc3c2)[C@H](O)[C@@H](O)[C@@H]1O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Adachi R, et al. Discovery and characterization of selective human sphingomyelin synthase 2 inhibitors. *Eur J Med Chem*. 2017 Aug 18;136:283-293.