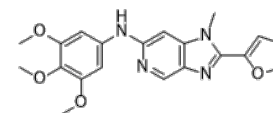


**Product Name** : GRK5-IN-2  
**Cat. No.** : PC-23911  
**CAS No.** : 1642839-27-7  
**Molecular Formula** : C<sub>20</sub>H<sub>20</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 380.40  
**Target** : GRK (GPCRK)  
**Solubility** : 10 mM in DMSO



CAS: 1642839-27-7

## Biological Activity

GRK5-IN-2 (Compound 707) is a potent, selective G-protein-coupled receptor kinase 5 (GRK5) inhibitor with IC<sub>50</sub> of 49.7 μM in luminescent ADP detection assay.

GRK5-IN-2 treatment significantly decreased TAG synthesis during 7 days of WT 3T3-L1 adipocyte differentiation in a dose-dependent manner.

GRK5-IN-2 inhibitor treatment significantly decreased the rate of TAG, cholesteryl ester (CE), and phospholipid (PL), but not free cholesterol (FC), synthesis from [14C]-acetic acid in WT 3T3-L1 adipocyte.

## References

Axel Ullrich, et al. Imidazo[4,5-c]pyridine and pyrrolo[3,2-c]pyridine compounds as G-protein-coupled receptor kinase 5 (GRK5) modulators. EP2818472A1.

Seramur ME, et al. Int J Obes (Lond). 2025 Jan 21. doi: 10.1038/s41366-025-01712-w.

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

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