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# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

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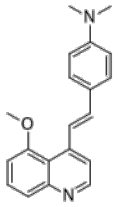
|---|---|---|
| **Product Name** | : | PGK1 activator L03 |
| **Cat. No.** | : | PC-26835 |
| **CAS No.** | : | 1241957-37-8 |
| **Molecular Formula** | : | $C_{20}H_{20}N_2O$ |
| **Molecular Weight** | : | 304.39 |
| **Target** | : | Other Targets |
| **Solubility** | : | 10 mM in DMSO |



CAS: 1241957-37-8

## Biological Activity

PGK1 activator L03 (AT-051/43421517) is a specific small molecule **activator** of phosphoglycerate kinase 1 (**PGK1**) with SPR KD of 2.45 uM, significantly enhances enzymatic activity of PGK1 at 0.25-2 uM in AβO-induced SH-SY5Y cells.
L03 (AT-051/43421517) (1-2 uM) significantly increases the PGK1 activity of SH-SY5Y cells not exposed to AβO.
L03 (0.25 and 1 μM) significantly protected SH-SY5Y cells from the AβO-induced impairment of cell viability, L03 (0.25 and 1 μM) itself has no significant effect on the viability of SH-SY5Y cells.
L03 ameliorates AβO-damaged SH-SY5Y cells by promoting glycolysis, reduced apoptosis, enhanced glycolytic metabolism, restored TCA cycle, and decreased ROS production in AβO-damaged SH-SY5Y cells.
L03 (0.5 and 1 mg/kg, i.p.) improves the learning and memory ability in 3×Tg-AD mice.

## References

Li M, et al. ***Alzheimers Res Ther***. 2026 Mar 26;18(1):102.

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

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