Product Specification Sheet

Product Name: GSK1292263
Catalog Number: C4129

Technical information:

**Chemical Formula:** C_{23}H_{28}N_{4}O_{4}S
**CAS #:** 1032823-75-8
**Molecular Weight:** 456.56
**Purity:** > 98%
**Appearance:** white solid
**Solubility:** Soluble in DMSO up to 100 mM
**Chemical Name:** 3-isopropyl-5-(4-((6-(4-(methylsulfonyl)phenyl)pyridin-3-yl)oxy)methyl)piperidin-1-yl)-1,2,4-oxadiazole
**Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
**Shelf Life:** In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:
- To make 10 mM stock solution, add 0.219mL of DMSO for each mg of GSK1292263.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

GSK1292263 is a novel GPR119 receptor agonist used for the treatment of type 2 diabetes. The predicted EC50 of GSK1292263 against GPR119 in vitro is at the nanomolar range. (1) The GPR119 receptor is a GPCR which is selectively expressed on pancreatic beta cells and intestinal enteroendocrine cells. Agonists to GPR119 stimulate glucose-dependent insulin secretion in vitro and lower an elevated blood glucose level in vivo.(2)

In vivo, GSK1292263 treatment significantly increases in the peak insulin response and insulin AUC(0-15 min) by 30-60% compared with vehicle control in the intravenous glucose tolerance test. This insulin upregulation correlated with a significant increase in the glucose disposal rate. (3)

Reference:

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