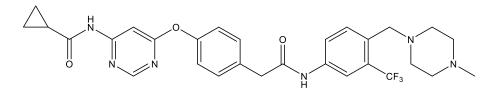


Catalog # 10-5666 WS6

CAS# 1421227-53-3 4-[[6-[Cyclopropylcarbonyl)amino]-4-pyrimidinyl]oxy]-N-[4-[(4-methyl-1-piperazinyl)methyl]-3-(trifluoromethyl)phenyl]benzeneacetamide Lot # X109927



Stimulates human β -cell proliferation both in a dispersed islet proliferation assay and in intact human cultures.¹ It has been shown to induce both α - and β -cell proliferation.² May lead to the development of new therapeutics for diabetes.³ Induces adult hippocampal neurogenesis correlating with its antidepressant effect in a rat model of chronic unpredictable mild stress-induced depression.⁴ Has been used together with TTNPB and azakenpaullone, as a defined chemical cocktail to induce mouse totipotent stem cells.⁵ Cell permeable.

- Shen et al. (2013), Small-molecule inducer of ß cell proliferation identified by high throughput screening; J. Am. Chem. Soc., 135 1669
- 2) Boerner et al. (2015), WS6 induces both alpha and beta cell proliferation without affecting differentiation or viability; Endocrinol. J., **62** 379
- 3) Shirakawa and Kulkarni (2016), Novel factors modulating human ß-cell proliferation; Diabetes Obes. Metab, 18 Suppl. 1 71
- 4) Zhang et al. (2021), WS6 Induces Adult Hippocampal Neurogenesis in Correlation to its Antidepressant Effect on the Alleviation of Depressive-like Behavior of Rats; Neuroscience **473** 119
- 5) Hu et al. (2022), Induction of mouse totipotent stem cells by a defined chemical cocktail; Nature, Online ahead of pub

PHYSICAL DATA

Molecular Weight:	568.60
Molecular Formula:	C ₂₉ H ₃₁ F ₃ N ₆ O ₃
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>30 mg/ml)
Physical Description:	Off-white to beige solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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