WS6

Stimulates pancreatic β-cell proliferation

WS6 is a small-molecule inhibitor of the IKB kinase pathway and ErbB3-binding protein 1 (EBP1), also known as proliferation-associated protein 2G4 (PA2G4), an RNA-binding protein involved in growth regulation.

Key features and applications include:

- **Diabetes Research:** WS6 is primarily used to study β cell proliferation, which is crucial for developing treatments for diabetes. It has been shown to increase β cell mass and normalize blood glucose levels in diabetic mouse models.
- **Endocrinology and Metabolism:** Researchers use WS6 to explore its effects on both α and β cell proliferation in human pancreatic islets, making it valuable for studies on endocrine function and metabolic diseases.
- **Cell Proliferation Studies:** WS6 is employed to investigate the mechanisms of cell proliferation, particularly through the IKB kinase pathway and ErbB3-binding protein 1 (EBP1).

Relevant disease states include:

- **Type 1 Diabetes:** WS6's ability to promote β cell growth makes it relevant for research into potential therapies for Type 1 diabetes, where β cell loss is a primary concern.
- **Metabolic Disorders:** Its role in enhancing pancreatic cell proliferation is also significant for studying various metabolic disorders that involve pancreatic dysfunction.

Ordering Information

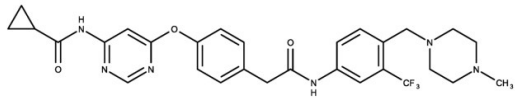
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ENZ-CHM340-0025	25mg

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- GMP format available


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CF3
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Solutions in DMSO may be stored at -20°C for up to 3 months.
Handling	Keep container tightly closed in a dry and well-ventilated place.
Short Term Storage	-20°C
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	4-[[6-[Cyclopropylcarbonyl)amino]-4-pyrimidinyl]oxy]-N-[4-[(4-methyl-1-piperazinyl)methyl]-3-(trifluoromethyl)phenyl]-benzeneacetamide
Appearance	Off-white to beige solid.
CAS	1421227-53-3
Couple Target	ErbB3-binding protein 1, IKK
Couple Type	Inhibitor
Formula	$C_{29}H_{31}F_3N_6O_3$
Identity	Determined by NMR.
MW	568.6
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (> 30 mg/mL).

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