

Catalog	Unit
TBI4289-5MG	5 mg
TBI4289-25MG	25 mg

Product Details

Formal Name: N-((1-Methyl-1H-imidazol-4-yl)methyl)-4-(4-methylpiperidin-1-yl)pyrimidin-2-amine

Alternate Names: O-GlcNAcase-IN-1

Molecular Formula: C₁₅H₂₂N₆

Formula Weight: 286.4

CAS Number: 2757254-99-0

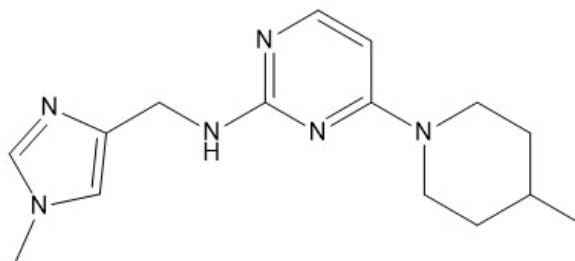
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

O-GlcNAcase inhibitor

Functions

Potent and brain-penetrant inhibitor (IC₅₀ = 46 nM) of O-GlcNAcase (OGA). OGA catalyzes the cleavage of O-linked N-acetylglucosamine from serine and threonine residues. On tau proteins, this leads to a less soluble and less stable protein form that is prone to aggregation. TP-040 is an interesting new tool for studying the effects of tau protein aggregation in neurodegenerative diseases.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.