

PugNAc, O-GlcNAcase inhibitor

Catalog	Unit
TBI2406-5MG	5 mg
TBI2406-25MG	25 mg

Product Details

Formal Name: O-(2-Acetamido-2-deoxy-D-glucopyranosylidene)amino-Z-N-phenylcarbamate

Molecular Formula: C₁₅H₁₉N₃O₇

Formula Weight: 353.33

CAS Number: 132489-69-1

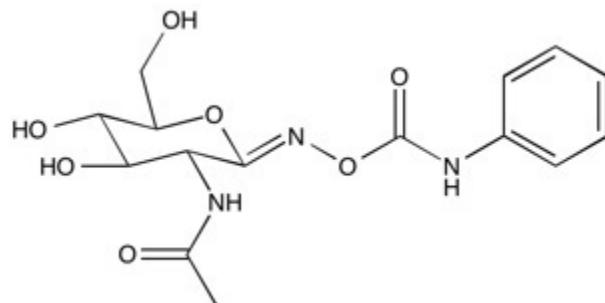
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 35 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

O-GlcNAcase inhibitor

Functions

O-GlcNAcase (O-GlcNAc-β-N-acetylglucosaminidase) and β-hexosaminidase inhibitor (K_i=46 and 36 nM, respectively). A widely used tool for increasing cellular levels of O-GlcNAc. Protects cardiac function after trauma-hemorrhage which is mediated by increased protein O-GlcNAc levels. Induces insulin resistance in rat skeletal muscle.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.