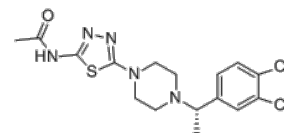


Product Name : ASN90
Cat. No. : PC-73139
CAS No. : 1884154-02-2
Molecular Formula : C₁₇H₂₁N₅O₃S
Molecular Weight : 375.447
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

ASN90 is a potent, selective, substrate-competitive **O-GlcNAcase** (OGA) inhibitor with IC₅₀ of 10.2 nM.

ASN90 does not inhibit hexosaminidase (Hex).

ASN90 induced protein O-GlcNAcylation in plated human and rodent PBMC with similar potencies (EC₅₀ of 209 and 489 nM for human and rodent PBMC, respectively).

ASN90 is chemically distinct from carbohydrate-type substrate mimetic OGA inhibitors such as Thiamet G and MK-8719.

ASN90 binds to the OGA enzyme in the living rat brain and robustly elevates the O-GlcNAcylation of brain proteins, including both tau and α -synuclein, in vivo.

ASN90 exhibited therapeutic efficacy in preclinical models of both tau and α -synuclein pathology.

References

Permanne B, et al. *ACS Chem Neurosci*. doi: 10.1021/acscchemneuro.2c00057.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com