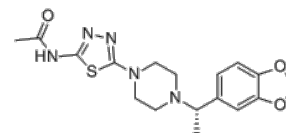


**Product Name** : ASN90  
**Cat. No.** : PC-73139  
**CAS No.** : 1884154-02-2  
**Molecular Formula** : C<sub>17</sub>H<sub>21</sub>N<sub>5</sub>O<sub>3</sub>S  
**Molecular Weight** : 375.447  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

Egalognastat (ASN90) is a potent, selective, substrate-competitive **O-GlcNAcase** (OGA) inhibitor with IC<sub>50</sub> of 10.2 nM. ASN90 does not inhibit hexosaminidase (Hex).

ASN90 induced protein O-GlcNAcylation in plated human and rodent PBMC with similar potencies (EC<sub>50</sub> 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!**

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