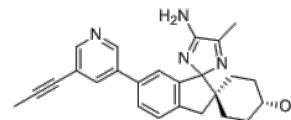


Product Name : Lanabecestat
Cat. No. : PC-60045
CAS No. : 1383982-64-6
Molecular Formula : C₂₆H₂₈N₄O
Molecular Weight : 412.537
Target : Beta-secretase (BACE)
Solubility : 10 mM in DMSO



Biological Activity

Lanabecestat (AZD-3293, LY-3314814) is a potent, orally active and brain-permeable **BACE1** inhibitor with K_i of 0.4 nM. Lanabecestat (AZD-3293, LY-3314814) shows equipotency against hBACE2 ($K_i=0.8$ nM), >25,000- and >41,000-fold selectivity against cathepsin D and γ -secretase.

Lanabecestat (AZD-3293, LY-3314814) significantly reduces A β 40, A β 42, and sA β PP β in mouse, guinea pig and dog, also shows in vitro potency in mouse and guinea pig primary cortical neuronal cells ($IC_{50}<1$ nM).

Lanabecestat (AZD-3293, LY-3314814) reduces cerebrospinal fluid (CSF) A β 1-40 and A β 1-42 in clinical trails.

References

Eketjäll S, et al. *J Alzheimers Dis.* 2016;50(4):1109-23.

Sims JR, et al. *J Prev Alzheimers Dis.* 2017;4(4):247-254.

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

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