

Product Name	: Lanabecestat
Synonyms	: AZD-3293; LY-3314814; LY3314814; AZD3293
Cat No.	: M11593
CAS Number	: 1383982-64-6
Molecular Formula	: C ₂₆ H ₂₈ N ₄ O
Formula Weight	: 412.54
Chemical Name	: (1r,4r)-4-methoxy-5"-methyl-6'-(5-(prop-1-yn-1-yl)pyridin-3-yl)-3'H-dispiro[cyclohexane-1,2'-indene-1',2"-imidazol]-4"-amine
Description	Lanabecestat (AZD-3293, LY-3314814) is a potent, orally active and brain-permeable BACE1 inhibitor with Ki of 0.4 nM; shows equipotency against hBACE2 (Ki=0.8 nM), >25,000- and >41,000-fold selectivity against cathepsin D and γ-secretase; significantly reduces Aβ₄₀, Aβ₄₂, and sAβPPβ in mouse, guinea pig and dog, also shows in vitro potency in mouse and guinea pig primary cortical neuronal cells (IC₅₀<1 nM); reduces cerebrospinal fluid (CSF) Aβ₁₋₄₀ and Aβ₁₋₄₂ in clinical trials. Alzheimer's Disease Phase 3 Clinical
Pathway	: Metabolic Enzyme/Protease
Target	: BACE
Receptor	: BACE
Solubility	: 10 mM in DMSO
SMILES	: <chem>CC#CC1=CC(=CN=C1)C2=CC3=C(C(C4(C35N=C(C(=N5)N)C)CCC(CC4)OC)C=C2</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Eketjll S, et al. J Alzheimers Dis. 2016;50(4):1109-23. | 2. Sims JR, et al. J Prev Alzheimers Dis. 2017;4(4):247-254.