

Product Name	: JTT-551
Synonyms	: JTT551;JTT 551
Cat No.	: M15931
CAS Number	: 776309-04-7
Molecular Formula	: C34H43N3O3S2
Formula Weight	: 605.86
Chemical Name	: N-((5-(tert-butyl)thiazol-2-yl)methyl)-N-((4-(4-((4-(heptan-4-yl)phenoxy)methyl)phenyl)thiazol-2-yl)methyl)glycine
Description	JTT-551 (JTT551, JTT 551) is a novel potent, selective inhibitor of protein tyrosine phosphatase 1B (PTP1B) with K_i of 0.22 μM, displays >45-fold and >136-fold selectivity over TCPTP, CD45 and LAR; JTT-551 exhibits clear selectivity against the other PTPs, increases the insulin-stimulated glucose uptake in L6 cells; enhances the IR phosphorylation of liver and reduces the glucose level in ob/ob mice , also shows a hypoglycaemic effect without an acceleration of body weight gain in db/db mice. Diabetes Phase 1 Discontinued
Pathway	: Metabolic Enzyme/Protease
Target	: Protein Phosphatase/PTP
Receptor	: Protein Phosphatase/PTP
Solubility	: —
SMILES	: <chem>CCCC(CCC)C1=CC=C(C=C1)OCC2=CC=C(C=C2)C3=CSC(=N3)CN(CC4=NC=C(S4)C(C)(C)C)CC(=O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Fukuda S, et al. Diabetes Obes Metab. 2010 Apr;12(4):299-306.| 2. Ito M, et al. J Diabetes Res. 2014;2014:680348.