

Product Name	: ST-148
Synonyms	: ST148
Cat No.	: M14372
CAS Number	: 400863-77-6
Molecular Formula	: C ₂₁ H ₁₉ N ₅ O ₂ S
Formula Weight	: 421.54
Chemical Name	: 3-Amino-6,7,8,9-tetrahydro-5H-1-thia-10-aza-cyclohepta[f]indene-2-carboxylic acid (5-phenyl-[1,3,4]thiadiazol-2-yl)-amide
Description	ST-148 a novel potent, broad-spectrum inhibitor of dengue virus (DENV) replication, inhibits DENV-2 with EC ₅₀ of 16 nM in viral titer reduction assays, interacts with the DENV Capsid protein; exhibits a broad range of potencies with EC ₅₀ of 0.512, 1.150, and 2.832 uM for DENV-3, -4, and -1, respectively; significantly reduced viremia and viral load in vital organs and tended to lower cytokine levels in the plasma in a nonlethal model of DENV infection in AG129 mice.
Pathway	: Microbiology/Virology
Target	: Filovirus
Receptor	: Filovirus
Solubility	: —
SMILES	: <chem>O=C(C1=C(N)C2=CC3=C(CCCCC3)N=C2S1)NC4=NN=C(C5=CC=CC=C5)S4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Byrd CM, et al. Antimicrob Agents Chemother. 2013 Jan;57(1):15-25. | 2. Scaturro P, et al. J Virol. 2014 Oct;88(19):11540-55.

