

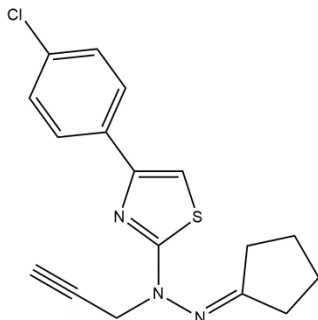
CAY10685

07/19

ALTERNATE NAMES: 4-(4-chlorophenyl)-N-(cyclopentylideneamino)-N-prop-2-ynyl-1,3-thiazol-2-amine; 4-(4-chlorophenyl)-2-(2-cyclopentylidene-1-(prop-2-yn-1-yl)hydrazinyl)thiazole; Click Tag™ CAY10685

CATALOG #: B2842-1 1 mg
B2842-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₇H₁₆ClN₃S

MOLECULAR WEIGHT: 329.85

CAS NUMBER: 1613116-16-7

APPEARANCE: A crystalline solid

PURITY: ≥95%

SOLUBILITY: ~10 mg/ml in DMF
~3 mg/ml in Ethanol
~5 mg/ml in DMSO

DESCRIPTION: CAY10685 is an active clickable analog of the lysine acetyltransferase inhibitor 4-(4-chlorophenyl)-2-(2-cyclopentylidenehydrazinyl)thiazole (CPH2 hydrochloride). The alkyne moiety reacts with an azide group upon copper exposure which tags the “clickable” molecules in cells. N-acetyltransferase 10 (NAT10) is a specific target of CAY10685. The inhibitor is used to study NAT10, its role in nuclear architecture and for strategies to treat laminopathies and aging.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Larrieu, D., Britton, S., Demir, M., et al. Chemical inhibition of NAT10 corrects defects of laminopathic cells *Science* 344(6183), 527-532 (2014).

RELATED PRODUCTS:

Plumbagin (Cat. No. 2290)
CPH2 (hydrochloride) (B2815)
CAY10669 (Cat. No. B2806)
Garcinol (Cat. No. 2088)
Anacardic Acid (Cat. No. 1849)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*