

PRODUCT INFORMATION



LH 846

Item No. 17686

CAS Registry No.: 639052-78-1
Formal Name: N-(5-chloro-6-methyl-2-benzothiazolyl)-benzeneacetamide

MF: C₁₆H₁₃ClN₂OS

FW: 316.8

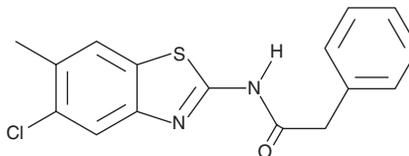
Purity: ≥98%

UV/Vis.: λ_{max}: 212, 233, 274, 296, 307 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

LH 846 is supplied as a crystalline solid. A stock solution may be made by dissolving the LH 846 in the solvent of choice. LH 846 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of LH 846 in these solvents is approximately 5 mg/ml.

Description

LH 846 is a benzothiazole analog that selectively inhibits casein kinase (CK) 1δ (IC₅₀ = 290 nM).¹ It inhibits CK1ε and CK1α at much higher concentrations (IC₅₀s = 1.3 and 2.5 μM, respectively) but does not inhibit CK2.¹ LH 846 has been shown to inhibit CK1δ-dependent phosphorylation and degradation of PER1 protein and to lengthen the circadian period in U2OS cells.¹

Reference

1. Lee, J.W., Hirota, T., Peters, E.C., M., *et al.* A small molecule modulates circadian rhythms through phosphorylation of the period protein. *Angew Chem. Int. Ed. Engl.* **50(45)**, 10608-10611 (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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