

Product Data Sheet

Product Name: Chktide acetate

Cat. No.: GC79076

Chemical Properties

Cas. No.

Formula $C_{115}H_{198}N_{40}O_{33}S \cdot xC_2H_4O_2$ M.Wt 2701.12

Solubility H_2O : 50 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Chktide acetate is a synthetic peptide substrate applicable for activity assays of Chk1 kinase and cyk/CaMKII. Chktide acetate contains the Ser53 phosphorylation site of Xenopus cyclin B2 [1] [2].

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vitro, Chktide acetate serves as a standard synthetic substrate for Chk1 serine protein kinase assays and can be used for the quantitative detection of Chk1 catalytic activity^[1]. Chktide acetate contains the Ser53 phosphorylation site of Xenopus cyclin B2, and upon phosphorylation, it induces a prophase-like premature phenotype in fibroblasts^[2].

References:

- [1]. Walker M, et al. Chk1 C-terminal regulatory phosphorylation mediates checkpoint activation by de-repression of Chk1 catalytic activity. *Oncogene*. 2009 Jun 18;28(24):2314-23.
- [2]. Stevens I, et al. Identification of cyk, a cyclin B2 kinase, as a novel calcium/calmodulin-dependent protein kinase II and its role during *Xenopus laevis* oocyte maturation. *Experimental cell research*. 1999 Nov 01;252(2):303-18.

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