

Product Data Sheet

Product Name: ATR kinase substrate peptide

Cat. No.: GC74316

Chemical Properties

Cas. No.

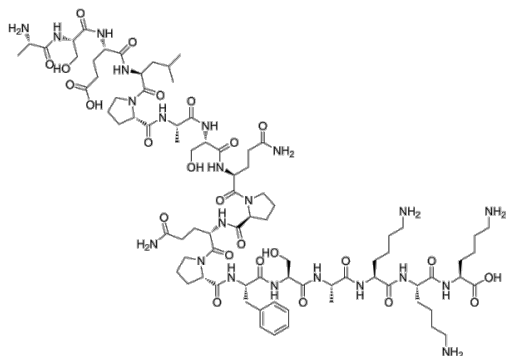
Formula $C_{81}H_{132}N_{22}O_{25}$ M.Wt 1814.05

Solubility H_2O : 28 mg/mL (15.44 mM; Need ultrasonic and warming) 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

ATR kinase substrate peptide (compound 45) is a potent and selective inhibitor of ATR (Ataxia Telangiectasia and Rad3 related) protein kinase ($K_i=6$ nM). ATR kinase substrate peptide inhibits ATR activity by competing with ATR kinase ATP-binding sites to block ATR mediated signaling. ATR kinase substrate peptide can be used to study the role of ATR kinase in DNA damage response.

References:

[1]. Charrier J D, et al. Discovery of potent and selective inhibitors of ataxia telangiectasia mutated

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

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and Rad3 related (ATR) protein kinase as potential anticancer agents[J]. Journal of medicinal chemistry, 2011, 54(7): 2320-2330.

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