Product Data Sheet

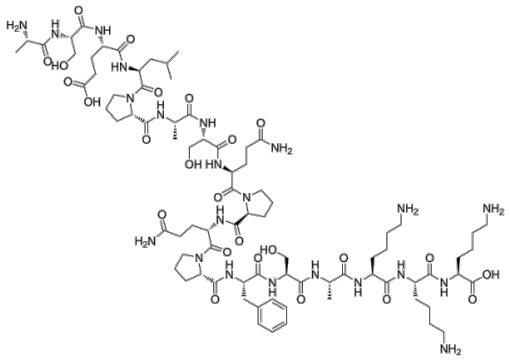
Product Name: ATR kinase substrate peptide
Cat. No.: GC74316

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 (Ki=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

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