

Product Data Sheet

Product Name: Cdk5 Substrate

Cat. No.: GC43220

Chemical Properties

Cas. No. 164669-07-2

SMILES [H]N1CCC[C@H]1C(N[C@@H](CCCCN)C(N[C@]([C@@H](C)O)([H])C(N2CCC[C@H]2C(N[C@@H](CCCCN)C(N[C@@H](CCCCN)C(N[C@H](C(N[C@@H](CCCCN)C(N[C@@H](CCCCN)C(N[C@@H](CCCCN)C(N[C@@H](CCCCN)C(N[C@@H](CC(C)C)C(O)=O)=O)=O)=O)=O)=O)=O)=O)=O)

Formula	C53H99N15O12	M.Wt	1138.5
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Solubility	DMF: 10 mg/ml,DMSO: 20 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store at -20°C
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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.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure

H—Pro—Lys—Thr—Pro—Lys—Lys—Ala—Lys—Lys—Leu—OH

Background

Cyclin-dependent kinase 5 (Cdk5) is a serine/threonine kinase that is predominantly active in neuronal tissues. With p25 or p35, Cdk5 phosphorylates a range of proteins, including histone H1 and tau. Cdk5 substrate is a synthetic peptide (PKTPKKAKKL) corresponding to a sequence of histone H1. It is phosphorylated by Cdk5 with a K_m value of 5 μM .

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

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