Product Data Sheet

Product Name:	SAMS Peptide
Cat. No.:	GC12364

Chemical Properties

Cas. No.	125911-68-4		
Chemical Name	(2S,3Z,5S,6Z,8S,9Z,11S,12Z,14S,15Z,17S,18Z,20S,21Z,24Z,26S,27Z,29S,30Z,32S,33Z,35S,36Z,38S,39Z,41S,42Z,44S)-17-((1H-imidazol-5-yl)methyl)-44-amino-8-(4-aminobutyl)-2,5,38-tris(3-guanidinopropyl)-4,7,10,13,16,19,22,25,28,31,34,37,40,43-tetradecahydroxy-26,		
SMILES	CC(C[C@@](/N=C(O)/C/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/[C@](N)([H])CC1=CN=CN1)([H])CCSC)([H])CCCNC(N)=N)([H])CO)([H])C)([H])CCSC)([H])CO)([H])/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N		
Formula	$C_{74}H_{131}N_{29}O_{18}S_2$	M.Wt	1779.15
Solubility	DMF: 15 mg/ml,DMSO: 15 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Desiccate at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	SAMS Peptide		

Background

SAMS peptide is a specific substrate for the AMP-activated protein kinase (AMPK).

SAMS peptide is a specific substrate for the AMP-activated protein kinase (AMPK).The SAMS peptide is not phosphorylated by any of five other purified protein kinases tested[1].

References:
[1]. Davies SP, et al. Tissue distribution of the AMP-activated protein kinase, and lack of activation by cyclic-AMP-dependent protein kinase, studied using a specific and sensitive peptide assay. Eur J Biochem. 1989 Dec 8;186(1-2):123-8.

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