

STAD 2

Chemical Properties

CAS No. : 1542100-77-5

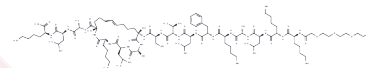
Formula: C102H182N24O22

Molecular Weight: 2096.724

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	STAD-2 is a cell permeable akap disruptor, selectively binding to pka-rii and blocking the interaction of pka-ri with akap
Targets(IC50)	PKA

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4769 mL	2.3847 mL	4.7694 mL
5 mM	0.0954 mL	0.4769 mL	0.9539 mL
10 mM	0.0477 mL	0.2385 mL	0.4769 mL
50 mM	0.0095 mL	0.0477 mL	0.0954 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bendzunas NG, Dörfler S, Autenrieth K, Bertinetti D, Machal EMF, Kennedy EJ, Herberg FW. Investigating PKA-R11 specificity using analogs of the PKA:AKAP peptide inhibitor STAD-2. *Bioorg Med Chem*. 2018 Mar 15;26(6):1174-1178. doi: 10.1016/j.bmc.2018.02.001. Epub 2018 Feb 12. PubMed PMID: 29449124; PubMed Central PMCID: PMC5844854.

Autenrieth K, Bendzunas NG, Bertinetti D Dr, Herberg FW Prof Dr, Kennedy EJ Prof Dr. Defining A-Kinase Anchoring Protein (AKAP) Specificity for the Protein Kinase A Subunit RI (PKA-RI). *Chembiochem*. 2016 Apr 15;17(8):693-697. doi: 10.1002/cbic.201500632. Epub 2015 Dec 17. PubMed PMID: 26611881; PubMed Central PMCID: PMC4836982.

Flaherty BR, Wang Y, Trope EC, Ho TG, Muralidharan V, Kennedy EJ, Peterson DS. The Stapled AKAP Disruptor Peptide STAD-2 Displays Antimalarial Activity through a PKA-Independent Mechanism. *PLoS One*. 2015 May 26;10(5):e0129239. doi: 10.1371/journal.pone.0129239. eCollection 2015. PubMed PMID: 26010880; PubMed Central PMCID: PMC4444124.

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