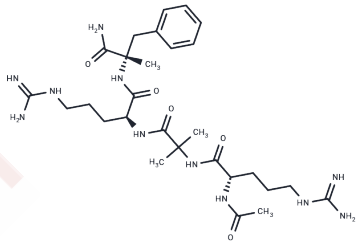
Data Sheet (Cat.No.TP2338)

TargetMol

Cenupatide

Chemical Properties



CAS No. : 1006388-38-0

Formula: C28H47N11O5

Molecular Weight: 617.756

Storage: Keep away from moisture
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	Cenupatide is a urokinase plasminogen activator receptor (uPAR) inhibitor. Cenupatide inhibits uPAR binding to the formyl peptide receptors (FPRs) can improve kidney lesions in a rat model of STZ-induced diabetes. Cenupatide reverted STZ-induced up-regulation of uPA levels and activity, while uPAR on podocytes and (s)uPAR were unaffected. In glomeruli, Cenupatide inhibited FPR2 expression.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6188 mL	8.0938 mL	16.1875 mL
5 mM	0.3238 mL	1.6188 mL	3.2375 mL
10 mM	0.1619 mL	0.8094 mL	1.6188 mL
50 mM	0.0324 mL	0.1619 mL	0.3238 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

Dal Monte M, Cammalleri M, Pecci V, Carmosino M, Procino G, Pini A, De Rosa M, Pavone V, Svelto M, Bagnoli P. Inhibiting the urokinase-type plasminogen activator receptor system recovers STZ-induced diabetic nephropathy. J Cell Mol Med. 2018 Nov 13. doi: 10.1111/jcmm.14004. [Epub ahead of print] PubMed PMID: 30426662.

Cammalleri M, Dal Monte M, Locri F, Marsili S, Lista L, De Rosa M, Pavone V, Rusciano D, Bagnoli P. Diabetic Retinopathy in the Spontaneously Diabetic Torii Rat: Pathogenetic Mechanisms and Preventive Efficacy of Inhibiting the Urokinase-Type Plasminogen Activator Receptor System. J Diabetes Res. 2017;2017:2904150. doi: 10.1155/2017/2904150. Epub 2017 Dec 31. PubMed PMID: 29464181; PubMed Central PMCID: PMC5804371.

Cammalleri M, Locri F, Marsili S, Dal Monte M, Pisano C, Mancinelli A, Lista L, Rusciano D, De Rosa M, Pavone V, Bagnoli P. The Urokinase Receptor-Derived Peptide UPARANT Recovers Dysfunctional Electroretinogram and Blood-Retinal Barrier Leakage in a Rat Model of Diabetes. Invest Ophthalmol Vis Sci. 2017 Jun 1;58(7):3138-3148. doi: 10.1167/iovs.17-21593. PubMed PMID: 28632880.

Boccella S, Panza E, Lista L, Belardo C, Ianaro A, De Rosa M, de Novellis V, Pavone V. Preclinical evaluation of the urokinase receptor-derived peptide UPARANT as an anti-inflammatory drug. Inflamm Res. 2017 Aug;66(8):701-709. doi: 10.1007/s00011-017-1051-5. Epub 2017 Apr 29. PubMed PMID: 28456844.