

MB21

Chemical Properties

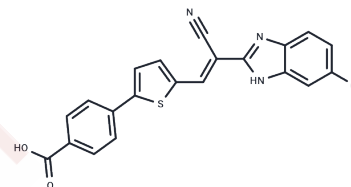
CAS No. : 1870007-38-7

Formula: C₂₁H₁₂ClN₃O₂S

Molecular Weight: 405.86

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	MB21 is a dengue type 2 protease inhibitor that acts by inhibiting each one of the four serotypes of dengue viruses in infected cells in culture.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4639 mL	12.3195 mL	24.639 mL
5 mM	0.4928 mL	2.4639 mL	4.9278 mL
10 mM	0.2464 mL	1.232 mL	2.4639 mL
50 mM	0.0493 mL	0.2464 mL	0.4928 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

Mirza SB, Lee RCH, Chu JJH, Salmas RE, Mavromoustakos T, Durdagi S. Discovery of selective dengue virus inhibitors using combination of molecular fingerprint-based virtual screening protocols, structure-based pharmacophore model development, molecular dynamics simulations and in vitro studies. *J Mol Graph Model*. 2018 Jan;79:88-102. doi: 10.1016/j.jmglm.2017.10.010. Epub 2017 Oct 24. PubMed PMID: 29156382.

Mirza SB, Lee RCH, Chu JJH, Salmas RE, Mavromoustakos T, Durdagi S. Discovery of selective dengue virus inhibitors using combination of molecular fingerprint-based virtual screening protocols, structure-based pharmacophore model development, molecular dynamics simulations and in vitro studies. *J Mol Graph Model*. 2017 Aug 9;77:338. doi: 10.1016/j.jmglm.2017.08.006. [Epub ahead of print] PubMed PMID: 28957754.

Oyer JL, Pandey V, Igarashi RY, Somanchi SS, Zakari A, Solh M, Lee DA, Altomare DA, Copik AJ. Natural killer cells stimulated with PM21 particles expand and biodistribute in vivo: Clinical implications for cancer treatment. *Cytotherapy*. 2016 May;18(5):653-63. doi: 10.1016/j.jcyt.2016.02.006. PubMed PMID: 27059202.

Raut R, Beesetti H, Tyagi P, Khanna I, Jain SK, Jeankumar VU, Yogeewari P, Sriram D, Swaminathan S. A small molecule inhibitor of dengue virus type 2 protease inhibits the replication of all four dengue virus serotypes in cell culture. *Virology*. 2015 Feb 8;12:16. doi: 10.1186/s12985-015-0248-x. PubMed PMID: 25886260; PubMed Central PMCID: PMC4327787.

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