

## A20FMDV2 TFA

## Chemical Properties

CAS No. :

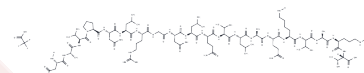
Formula: C93H163N31O28.XCF3COOH

Molecular Weight: 2163.48

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	A20FMDV2, a peptide derived from the $\alpha$ -helical RGD cell-interacting domain of the VP1 capsid protein of foot-and-mouth disease virus (FMDV) serotype O, targets and binds $\alpha$ V $\beta$ 6 integrin. It effectively disrupts $\alpha$ V $\beta$ 6 integrin-mediated cell adhesion in H357 tongue squamous cell carcinoma cells that exhibit human $\alpha$ V $\beta$ 6, with an inhibitory concentration (IC50) of 1.2 $\mu$ M. Additionally, when labeled with 111indium-DTPA, A20FMDV2 (20 MBq) specifically attaches to $\alpha$ V $\beta$ 6 integrin in a breast cancer mouse xenograft model using MCF10CA1a cells, facilitating targeted radiation imaging analysis.
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## Solubility Information

Solubility	DMF: 10 mg/mL (4.62 mM),Sonication is recommended. Ethanol: 1 mg/mL (0.46 mM),Sonication is recommended. DMSO: 10 mg/mL (4.62 mM),Sonication is recommended. PBS pH 7.2: 5 mg/mL (2.31 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4622 mL	2.3111 mL	4.6222 mL
5 mM	0.0924 mL	0.4622 mL	0.9244 mL
10 mM	0.0462 mL	0.2311 mL	0.4622 mL
50 mM	0.0092 mL	0.0462 mL	0.0924 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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