

LXW7 TFA (1313004-77-1 free base)

## Chemical Properties

CAS No. :

Formula: C<sub>31</sub>H<sub>49</sub>F<sub>3</sub>N<sub>12</sub>O<sub>14</sub>S<sub>2</sub>

Molecular Weight: 934.92

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	LXW7 TFA, a cyclic peptide containing Arg-Gly-Asp (RGD), is an integrin $\alpha\beta3$ inhibitor with an anti-inflammatory effect. LXW7 has a high binding affinity to $\alpha\beta3$ integrin (IC <sub>50</sub> : 0.68 $\mu$ M). It increases the phosphorylation of VEGFR-2 and activation of ERK1/2.
Targets(IC <sub>50</sub> )	Integrin

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0696 mL	5.3481 mL	10.6961 mL
5 mM	0.2139 mL	1.0696 mL	2.1392 mL
10 mM	0.107 mL	0.5348 mL	1.0696 mL
50 mM	0.0214 mL	0.107 mL	0.2139 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

Xiao W, et al. The use of one-bead one-compound combinatorial library technology to discover high-affinity  $\alpha\beta3$  integrin and cancer targeting arginine-glycine-aspartic acid ligands with a built-in handle. Mol Cancer Ther. 2010 Oct;9(10):2714-23.

Hao D, et al. Discovery and Characterization of a Potent and Specific Peptide Ligand Targeting Endothelial Progenitor Cells and Endothelial Cells for Tissue Regeneration. ACS Chem Biol. 2017 Apr 21;12(4):1075-1086.

Fang T, et al. LXW7 ameliorates focal cerebral ischemia injury and attenuates inflammatory responses in activated microglia in rats. Braz J Med Biol Res. 2016 Aug 1;49(9):e5287.

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