# **PRODUCT** INFORMATION



## **CWHM12**

Item No. 19480

CAS Registry No.: Formal Name:	1564286-55-0 (3S)-N-[3-hydroxy-5-[(1,4,5,6- tetrahydro-5-hydroxy-2- pyrimidinyl)amino]benzoyl]glycyl- 3-[3-bromo-5-(1,1-dimethylethyl) phenyl]-β-alanine	
MF:	C <sub>26</sub> H <sub>32</sub> BrN <sub>5</sub> O <sub>6</sub>	
FW:	590.5	
Purity:	≥98%	но у
UV/Vis.:	λ <sub>max</sub> : 299 nm	ОН
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

#### Laboratory Procedures

CWHM12 is supplied as a crystalline solid. A stock solution may be made by dissolving the CWHM12 in the solvent of choice. CWHM12 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of CWHM12 in these solvents is approximately 1 mg/ml.

CWHM12 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CWHM12 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CWHM12 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

#### Description

CWHM12 is an analog of RGD peptide (Item No. 14501), a tripeptide that inhibits integrin-ligand interactions in studies related to cell adhesion, migration, growth, and differentiation.<sup>1</sup> CWHM12 selectively inhibits av integrins (IC<sub>50</sub>s = 1.8, 0.8, 61, 1.5, and 0.2 nM for  $\alpha\nu\beta1$ ,  $\alpha\nu\beta3$ ,  $\alpha\nu\beta5$ ,  $\alpha\nu\beta6$ , and  $\alpha\nu\beta8$ , respectively) over  $\alpha$ IIb $\beta$ 3,  $\alpha$ 2 $\beta$ 1, and  $\alpha$ 10 $\beta$ 1.<sup>2</sup> CWHM 12 attenuates liver, lung, and pancreatic fibrosis in mice treated with CCl₄ or cerulein.<sup>2,3</sup>

#### References

- 1. Ruoslahti, E. and Öbrink, B. Common principles in cell adhesion. Exp. Cell Res. 227, 1-11 (1996).
- 2. Henderson, N.C., Arnold, T.D., Katamura, Y., et al. Selective av integrin depletion identifies a core, targetable molecular pathway that regulates fibrosis across solid organs. Nat. Med. 19(12), 1-12 (2013).
- 3. Ulmasov, B., Newschwander-Tetri, B.A., Lai, J., et al. Inhibitors of Arg-Gly-Asp-binding integrins reduce development of pancreatic fibrosis in mice. Cell. Mol. Gastroenterol. Hepatol. 2(4), 499-518 (2016).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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