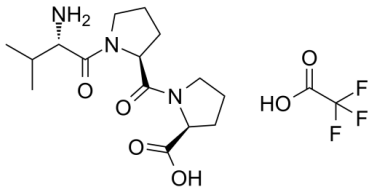
Data Sheet

Product Name:	H-Val-Pro-Pro-OH (TFA)
Cat. No.:	CS-0077836
Molecular Formula:	C17H26F3N3O6
Molecular Weight:	425.40
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Solubility:	H2O : ≥ 160 mg/mL (376.12 mM)



BIOLOGICAL ACTIVITY:

H-Val-Pro-Pro-OH (TFA), a milk-derived proline peptides derivative, is an inhibitor of Angiotensin I converting enzyme **(ACE)**, with an **IC_{50}** of 9 μM. IC50 & Target: IC50: 9 μM (ACE)[1]. **In Vitro:** H-Val-Pro-Pro-OH (TFA), a proline peptides derivative, could inhibit Angiotensin I converting enzyme (ACE), with an IC_{50} of 9 μM[1]. H-Val-Pro-Pro-OH (TFA) could enhance insulin sensitivity and prevent insulin resistance in 3T3-F442A pre-adipocytes. H-Val-Pro-Pro-OH (TFA) also has anti-hypertensive and anti-inflammatory functions. H-Val-Pro-Pro-OH (TFA) further enhances the expression of glucose transporter 4 (GLUT4) in adipocytes and restores glucose uptake in TNF-treated adipocytes[2].

References:

[1]. Nakamura Y, et al. Purification and characterization of angiotensin I-converting enzyme inhibitors from sour milk. J Dairy Sci. 1995 Apr;78(4):777-83.

[2]. Chakrabarti S, et al. Milk-Derived Tripeptides IPP (Ile-Pro-Pro) and VPP (Val-Pro-Pro) Enhance Insulin Sensitivity and Prevent Insulin Resistance in 3T3-F442A Preadipocytes. J Agric Food Chem. 2018 Oct 3;66(39):10179-10187.

CAIndexNames:

H-Val-Pro-Pro-OH (TFA)

SMILES:

N[C@@H](C(C)C)C(N1CCC[C@H]1C(N2CCC[C@H]2C(O)=O)=O)=O.OC(C(F)(F)F)=O

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA