

## Rac1 Inhibitor W56 TFA

**Cat. No.:** HY-P1382A  
**Molecular Formula:** C<sub>76</sub>H<sub>118</sub>F<sub>3</sub>N<sub>19</sub>O<sub>25</sub>S  
**Molecular Weight:** 1785.95  
**Sequence:** Met-Val-Asp-Gly-Lys-Pro-Val-Asn-Leu-Gly-Leu-Trp-Asp-Thr-Ala-Gly  
**Sequence Shortening:** MVDGKPVNLGLWDTAG  
**Target:** Ras  
**Pathway:** GPCR/G Protein  
**Storage:** Sealed storage, away from moisture  
 Powder -80°C 2 years  
 -20°C 1 year

MVDGKPVNLGLWDTAG

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (55.99 mM); Need ultrasonic					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		0.5599 mL	2.7996 mL	5.5993 mL
		<b>5 mM</b>		0.1120 mL	0.5599 mL	1.1199 mL
	<b>10 mM</b>		0.0560 mL	0.2800 mL	0.5599 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (55.99 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Rac1 Inhibitor W56 TFA is a peptide containing residues 45-60 of Rac1. Rac1 Inhibitor W56 TFA inhibits Rac1 interaction with guanine nucleotide exchange factors TrioN, GEF-H1, and Tiam <sup>[1]</sup> .
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### REFERENCES

[1]. Gao Y, Xing J, et al. Trp(56) of rac1 specifies interaction with a subset of guanine nucleotide exchange factors [published correction appears in J Biol Chem. 2005 Jan 14;280(2):1704]. J Biol Chem. 2001;276(50):47530-47541.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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