

## DPC-AJ1951 TFA

<b>Cat. No.:</b>	HY-P1418A	
<b>Molecular Formula:</b>	C <sub>78</sub> H <sub>128</sub> F <sub>3</sub> N <sub>23</sub> O <sub>21</sub>	
<b>Molecular Weight:</b>	1781.02	
<b>Sequence:</b>	{Aib}-Val-{Aib}-Glu-Ile-Gln-Leu-{Nle}-His-Gln-Arg-Ala-Lys-Tyr-NH <sub>2</sub>	{Aib}V{Aib}EIQL{Nle}HQRAKY-NH <sub>2</sub> (TFA salt)
<b>Sequence Shortening:</b>	{Aib}V{Aib}EIQL{Nle}HQRAKY-NH <sub>2</sub>	
<b>Target:</b>	Thyroid Hormone Receptor	
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor	
<b>Storage:</b>	Sealed storage, away from moisture and light, under nitrogen	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)	

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (56.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.5615 mL	2.8074 mL	5.6148 mL
	5 mM		0.1123 mL	0.5615 mL	1.1230 mL
	10 mM		0.0561 mL	0.2807 mL	0.5615 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

DPC-AJ1951 TFA, a 14 amino acid peptide that acts as a potent agonist of the parathyroid hormone (PTH)/PTH-related peptide receptor (PPR). And characterized the activity of DPC-AJ1951 TFA in ex vivo and in vivo assays of bone resorption<sup>[1]</sup>.

#### In Vitro

DPC-AJ1951 TFA induces intracellular Ca<sup>2+</sup> mobilization in HEK 293 cells transfected with the human PPR (EC<sub>50</sub> 26±14 nM)<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Percy H Carter, et al. Discovery of a Small Molecule Antagonist of the Parathyroid Hormone Receptor by Using an N-terminal Parathyroid Hormone Peptide Probe. Proc Natl Acad Sci U S A. 2007 Apr 17;104(16):6846-51.

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

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