

## Notch 1 TFA

Cat. No.:	HY-P1985A	
Molecular Formula:	$C_{64}H_{98}N_{15}F_3O_{25}S_3$	
Molecular Weight:	1614.81	
Sequence Shortening:	NH <sub>2</sub> -CLDQIGEFQCICE-COOH	NH <sub>2</sub> -CLDQIGEFQCICE-COOH (TFA salt)
Target:	Notch	
Pathway:	Neuronal Signaling; Stem Cell/Wnt	
Storage:	Sealed storage, away from moisture	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 18.52 mg/mL (11.47 mM; ultrasonic and adjust pH to 9 with NaOH)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.6193 mL	3.0963 mL	6.1927 mL
	5 mM		0.1239 mL	0.6193 mL	1.2385 mL
	10 mM		0.0619 mL	0.3096 mL	0.6193 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Notch 1 TFA (Notch homolog 1, translocation-associated) can encode a member of the NOTCH family of proteins. Members of this Type I transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple different domain types<sup>[1]</sup>.

#### In Vitro

Notch 1 is shown to promote mouse luminal prostate cell survival and proliferation through the activation of the prosurvival NF-κB pathway<sup>[2]</sup>.  
Down-regulation of Notch 1 and Jagged1 in human prostate cancer cell lines decreases in vitro invasion and cell growth<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. NOTCH1 notch receptor 1 [Homo sapiens (human)] Gene ID: 4851, updated on 28-Oct-2019.

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[2]. Stoyanova T, et al. Activation of Notch1 synergizes with multiple pathways in promoting castration-resistant prostate cancer. Proc Natl Acad Sci U S A. 2016 Oct 18;113(42):E6457-E6466.

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

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