

Jagged-1 (188-204) (TFA)

Cat. No.:	HY-P1846A	
Molecular Formula:	C ₉₅ H ₁₂₈ F ₃ N ₂₅ O ₂₈ S ₃	
Molecular Weight:	2221.42	
Sequence Shortening:	CDDYYYGFGCNKFCRPR	CDDYYYGFGCNKFCRPR (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

H₂O : 50 mg/mL (22.51 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4502 mL	2.2508 mL	4.5016 mL
	5 mM	0.0900 mL	0.4502 mL	0.9003 mL
	10 mM	0.0450 mL	0.2251 mL	0.4502 mL

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

BIOLOGICAL ACTIVITY

Description

Jagged-1 (188-204) TFA is a fragment of the Jagged-1 (JAG-1) protein with Notch agonist activity. JAG-1 is a Notch ligand highly expressed in cultured and primary multiple myeloma (MM) cells. JAG-1 induces maturation of monocyte-derived human dendritic cells^{[1][2][3]}.

In Vitro

Jagged-1 (188-204) is part of the DSL region, and highly conserved between human Jagged-1 and Jagged-2^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Inflammation. 2022 Jun 15.
- Research Square Preprint. 2022 May.

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REFERENCES

- [1]. Nickoloff BJ, et al. Jagged-1 mediated activation of notch signaling induces complete maturation of human keratinocytes through NF-kappaB and PPARgamma. Cell Death Differ. 2002 Aug;9(8):842-55.
- [2]. Jundt F, et al. Jagged1-induced Notch signaling drives proliferation of multiple myeloma cells. Blood. 2004 May 1;103(9):3511-5.
- [3]. Weijzen S, et al. The Notch ligand Jagged-1 is able to induce maturation of monocyte-derived human dendriticcells. J Immunol. 2002 Oct 15;169(8):4273-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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