

Jagged-1 (188-204) TFA(219127-21-6 free base)

Chemical Properties

CAS No. :

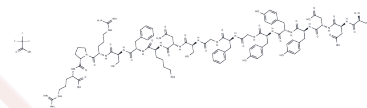
Formula: C₉₅H₁₂₈F₃N₂₅O₂₈S₃

Molecular Weight: 2221.37

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Jagged-1 (188-204) TFA(219127-21-6 free base) is a fragment of the JAG-1 protein. JAG-1 is Notch ligand, a peptide that is the most conspicuously expressed ligand in skin. JAG-1 induces epidermal maturation. Exposing submerged keratinocytes monolayers to JAG-1 with elevated calcium concentration produces stratification with loricrin expression and NF-alphaB activation.
Targets(IC50)	Gamma-secretase
In vitro	Jagged-1 (188-204) TFA (40 μM, 72 h) activates the Notch signaling pathway and induces fully differentiated maturation of human keratinocytes via NF-kappaB and PPARgamma. [2] Jagged-1 (188-204) TFA (50 μM, 24 h) enhances store-operated Ca ²⁺ inward flow in human pulmonary artery smooth muscle cells. [3]

Solubility Information

Solubility	H ₂ O: 50 mg/mL (22.51 mM) DMSO: 100 mg/mL (45.02 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4502 mL	2.2509 mL	4.5017 mL
5 mM	0.090 mL	0.4502 mL	0.9003 mL
10 mM	0.045 mL	0.2251 mL	0.4502 mL
50 mM	0.009 mL	0.045 mL	0.090 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jundt F, et al. Jagged1-induced Notch signaling drives proliferation of multiple myeloma cells. *Blood*. 2004 May 1; 103(9):3511-5.

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.

Yamamura H, et al. Activation of Notch signaling by short-term treatment with Jagged-1 enhances store-operated Ca(2+) entry in human pulmonary arterial smooth muscle cells. *Am J Physiol Cell Physiol*. 2014 May 1;306(9):C871-8.

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