

type I hair keratin fragment [Homo sapiens]/[Ovis aries]/[Rattus norvegicus]

Chemical Properties

CAS No.:	TP2188
Formula:	C47H77N13O15
Molecular Weight:	1064.19
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	The human type I hair keratin subfamily comprises nine individual members, which can be subdivided into three groups. Group A (hHa1, hHa3-I, hHa3-II, hHa4) and B (hHa7, hHa8) each contains structurally related hair keratins, whereas group C members hHa2, hHa5, and hHa6 represent structurally rather unrelated hair keratins ¹ .
In vitro	Keratins are divided into type I (acidic) and type II (basic to neutral) members, which form the 10-nm intermediate filament cytoskeletal network of epithelial cells through the obligatory association of equimolar amounts of type I and type II keratins [2][3][4].
In vivo	The various type I hair keratin antibodies proved to be highly specific in that they recognized only single protein bands when analyzed in Western blots of one-dimensionally resolved human hair keratins. One exception concerned the hHa2 antibody, which besides the prominent hHa2 protein band also reacted with a slightly larger minor band ¹ . A LEF-1 consensus sequence is invariably located at a highly conserved position in the proximal promoter region of the members of the human type I hair keratin family but it is specifically lacking in the entire promoter of the hHa7 gene ⁵ .

Solubility Information

Solubility	DMSO: ≥106.4mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.94 mL	4.698 mL	9.397 mL
5 mM	0.188 mL	0.94 mL	1.879 mL
10 mM	0.094 mL	0.47 mL	0.94 mL
50 mM	0.019 mL	0.094 mL	0.188 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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