

Jagged-1/JAG1 Protein, Mouse (Myc, His-SUMO)

Cat. No.:	HY-P71633
Synonyms:	Jag1; Protein jagged-1; Jagged1; CD antigen CD339
Species:	Mouse
Source:	E. coli
Accession:	Q9QXX0 (33G-334E)
Gene ID:	16449
Molecular Weight:	Approximately 53.6 kDa

PROPERTIES

AA Sequence	<p>G Q F E L E I L S M Q N V N G E L Q N G N C C G G V R N P G D R K C T R D E C D</p> <p>T Y F K V C L K E Y Q S R V T A G G P C S F G S G S T P V I G G N T F N L K A S</p> <p>R G N D R N R I V L P F S F A W P R S Y T L L V E A W D S S N D T I Q P D S I I</p> <p>E K A S H S G M I N P S R Q W Q T L K Q N T G I A H F E Y Q I R V T C D D H Y Y</p> <p>G F G C N K F C R P R D D F F G H Y A C D Q N G N K T C M E G W M G P D C N K A</p> <p>I C R Q G C S P K H G S C K L P G D C R C Q Y G W Q G L Y C D K C I P H P G C V</p> <p>H G T C N E P W Q C L C E T N W G G Q L C D K D L N Y C G T H Q P C L N R G T C</p> <p>S N T G P D K Y Q C S C P E G Y S G P N C E</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4 or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Jagged-1 (JAG1) serves as a versatile ligand, engaging multiple Notch receptors and participating in the mediation of Notch signaling. Its involvement extends to potential roles in cell-fate decisions during hematopoiesis and spans both early and late stages of mammalian cardiovascular development. Moreover, JAG1 demonstrates the ability to modulate myoblast differentiation, emphasizing its regulatory impact on diverse cellular processes. Additionally, it may play a role in the
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regulation of fibroblast growth factor-induced angiogenesis. Through its interactions with NOTCH1, NOTCH2, and NOTCH3, JAG1 contributes to the complex orchestration of Notch signaling, highlighting its significance in cellular responses and developmental pathways.

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

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