

Jagged-1/JAG1 Protein, Human (1013a.a, HEK293, His)

Cat. No.:	HY-P701016
Synonyms:	Jagged1; hJ1; CD339; JAGL1; AGS; AHD; AWS
Species:	Human
Source:	HEK293
Accession:	P78504-1 (Q34-S1046)
Gene ID:	/
Molecular Weight:	120-140 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The Jagged-1 (JAG1) protein functions as a ligand for multiple Notch receptors, playing a crucial role in mediating Notch signaling, as evidenced by its interactions with NOTCH1, NOTCH2, and NOTCH3. Its involvement in cell-fate decisions during hematopoiesis suggests a regulatory role in blood cell development. JAG1 is implicated in various stages of mammalian cardiovascular development and has been associated with both early and late phases of this process. Additionally, it inhibits myoblast differentiation and enhances fibroblast growth factor-induced angiogenesis in vitro. Notably, the interaction between JAG1 and NOTCH1 is calcium ion-dependent, highlighting the complexity of its regulatory mechanisms in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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