Active Recombinant Human JAG1, Fc-tagged

Cat. No. JAG1-380H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Signal peptide and extracellular domain of human Jagged-1 (HJ1; CD339) (aa 1-1067) are fused at the C-terminus to the Fc portion of human IgG1.
Species	Human
Source	HEK293
ProteinLength	1-1067 a.a.
Description	Jagged-1 is a ligand for multiple Notch receptors and involved in the mediation of Notch signaling. It is involved in cell-fate decisions during hematopoiesis. Is involved in early and late stages of mammalian cardiovascular development. Inhibits myoblast differentiation. Enhances fibroblast growth factor-induced angiogenesis (in vitro). Defects in Jagged-1 are the cause of Alagille syndrome type 1 (ALGS1) and tetralogy of Fallot (TOF).
Form	Liquid. 0.2μm-filtered solution in PBS.
Bio-activity	Inhibits adipogenesis of mesenchymal stem cells (MSCs). Induces Hes-1 in 3T3L-1 cells.
Molecular Mass	~150kDa (SDS-PAGE)
Purity	≥90% (SDS-PAGE)

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Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
Concentration	0.5mg/ml

GENE INFORMATION

Gene Name	JAG1 jagged 1 [Homo sapiens]
Official Symbol	JAG1
Synonyms	JAG1; jagged 1; AGS, Alagille syndrome , JAGL1; protein jagged-1; AHD; AWS; CD339; HJ1; AGS; JAGL1; MGC104644;
Gene ID	182
mRNA Refseq	NM_000214
Protein Refseq	NP_000205
UniProt ID	P78504
Chromosome Location	20p12.1-p11.23
Pathway	Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch signaling pathway, conserved biosystem; Signal Transduction,

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	organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem;
Function	Notch binding; calcium ion binding; growth factor activity; structural molecule activity;

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