

Recombinant Rat Jagged 1

Cat. No. Jag1-1795R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	Mammalian Cells
Description	Jagged 1 (JAG1) is a cell surface protein that functions in an embryologically important signaling pathway, known as the Notch signaling pathway, which is a highly conserved cell signaling system. JAG1 plays an essential role in tissue formation during embryonic development of primitive organisms. JAG1 is a strong candidate gene for Alagille syndrome (AGS) which is an autosomal dominant disorder with developmental abnormalities affecting the liver, heart, eyes, vertebrae, and craniofacial region.
Molecular Weight	The predicted molecular weight of Recombinant Rat Jagged 1 is Mr 141.7 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 180 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Jag1 jagged 1 [Rattus norvegicus]
Synonyms	Jag1; jagged 1; ligand responsible for activating Notch1
Gene ID	29146
mRNA Refseq	NM_019147
Protein Refseq	NP_062020
UniProt ID	Q63722
Chromosome Location	3q36
Pathway	Notch signaling pathway
Function	Notch binding; calcium ion binding; protein binding

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