

Human Jagged 1/JAG1 Protein

Cat. No. JAG-HM101

Description

Source	Recombinant Human Jagged 1/JAG1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln34-Ser1046.
Accession	P78504-1
Molecular Weight	The protein has a predicted MW of 111.56 kDa. Due to glycosylation, the protein migrates to 120-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

JAGGED1 (JAG1) is composed of a relatively small intracellular domain, a transmembrane domain and a larger extracellular component. JAG1 is widely expressed throughout mammalian development, across many tissues and developmental stages. The Notch signaling pathway and JAG1 in particular have been implicated in multiple forms of cancer and multiple aspects of cancer biology including tumor angiogenesis, neoplastic cell growth, cancer stem cell maintenance and the metastatic process.

Assay Data

Bis-Tris PAGE



Human Jagged 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.