Human Jagged 1 / JAG1 Protein, His Tag

Catalog # JA1-H52H9

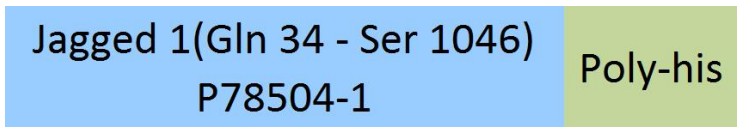
Synonym

CD339,JAG1,Jagged1,hJ1,JAGL1

Source

Human Jagged 1 Protein, His Tag(JA1-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gln 34 - Ser 1046 (Accession # P78504-1). Predicted N-terminus: Gln 34

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 112.3 kDa. The protein migrates as 130 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per μg by the LAL method.

Sterility

Negative

Mycoplasma

Negative.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

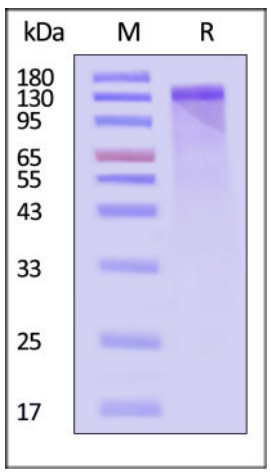
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

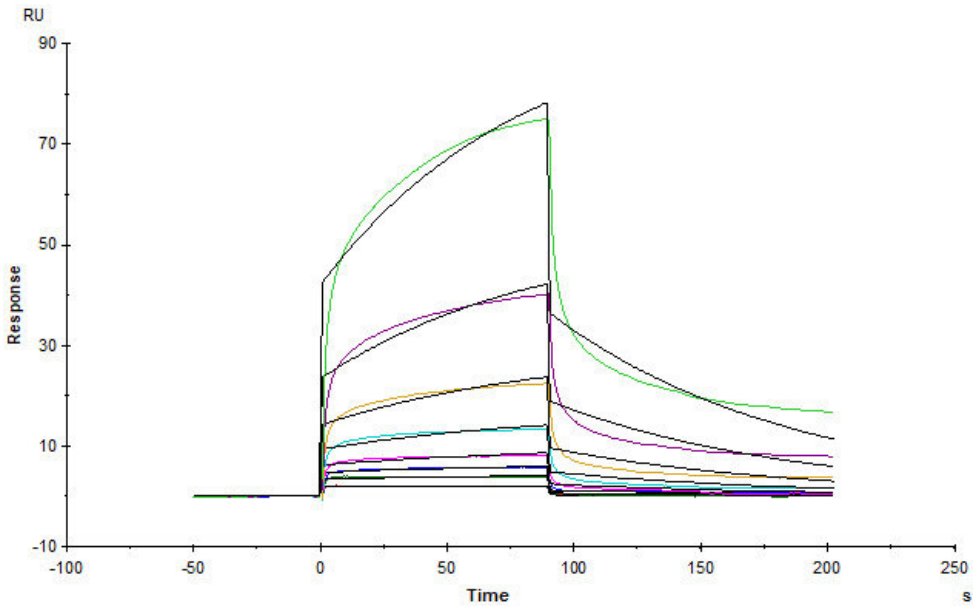
SDS-PAGE



Human Jagged 1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-SPR

Discounts, Gifts, and more!



Human Jagged 1 Protein, His Tag (Cat. No. JA1-H52H9) immobilized on CM5 Chip can bind Human NOTCH1, Fc Tag (Cat. No. NO1-H5255) with an affinity constant of 5.13 μM as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

Protein jagged-1 (JAG1) is also known as Jagged1, hJ1, JAGL1 and CD339, which is a single-pass type I membrane protein containing one DSL domain and 15 EGF-like domains. JAG1 is widely expressed in adult and fetal tissues,the expression of JAG1 is up-regulated in cervical squamous cell carcinoma and also expressed in bone marrow cell line HS-27a.JAG1 is a ligand for multiple Notch receptors and involved in the mediation of Notch signaling. JAG1 is involved in early and late stages of mammalian cardiovascular development. JAG1 inhibits myoblast differentiation by similarity and enhances fibroblast growth factor-induced angiogenesis (in vitro).

Clinical and Translational Updates

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