

From: jaster@bustoff.bwh.harvard.edu
Date: Fri, 2 Jan 1998 15:27:15 -0500
To: esrobert@umich.edu
Subject: stuff and ligand

Jagged Stimuli

Erle,

I have gathered up the materials (except for the ligand-expressing cell lines) and will ship on Monday. The reason I have not gathered the ligand-lines is because of an important preprint that Laurie Milner at the Hutchinson Institute in seattle sent to me. She has a paper coming out in Immunity that describes the use of JAGGED1 to inhibit the differentiation of 32D cells. Remarkably, the effect of full-sized ligand (expressed on feeder cells) was mimicked by a 17 amino acid peptide expressed derived from a conserved portion of the DSL domain! Hence, one can use this peptide as a soluble ligand, greatly simplifying analyses of NOTCH signaling effects. The sequence of the peptide derived from JAGGED1 is:

CDDYYYGFGCNKFCRPR

The analogous sequence in JAGGED2 is:

CDENYYSATCNKFCRPR

We are having these made and are going to check them soon for signaling effects. You may wish to also make them, if you have access to a reasonably good peptide synthesizer. Let me know if you would prefer to work with the feeders---

Best wishes,

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