

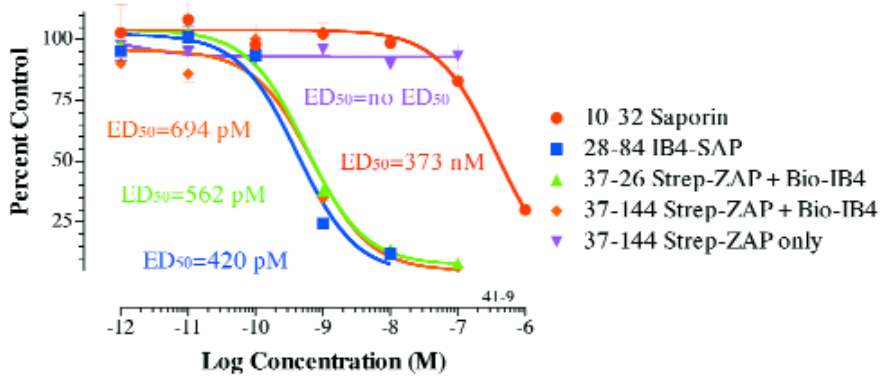
Targeting Tools: Featured Products

Streptavidin-ZAP (Cat. #IT-27)

Saporin conjugated to streptavidin is one of the most useful reagents that we have produced at ATS. It has been used in a wide variety of studies both in academic research and pharmaceutical/biotech labs. Workers are able to easily see if their molecule, that is biotinylated, is internalized by the target cells. The simple read-out of cell death requires only a microscope, but is also easily scaled up for industrial use. The streptavidin-biotin bond is so strong that streptavidin-ZAP can even be used *in vivo*. The technique can be used with all sorts of molecules: growth factors, peptide ligands, cytokines, antibodies—anything that can be biotinylated. Can't biotinylate it? Then let us do it for you!

Streptavidin-ZAP (conjugate alone)	
Cat #	Units
IT-27-25	25 micrograms
IT-27-100	100 micrograms
IT-27-250	250 micrograms

Kit: conjugate and control (saporin)	
Cat #	Units
KIT-27-25	25 micrograms
KIT-27-100	100 micrograms
KIT-27-250	250 micrograms



KNRK cells are plated at 2500 cells/well and incubated overnight. Streptavidin-ZAP is premixed with Biotinylated-IB4 in equimolar concentrations. Saporin, IB4-SAP, and the Streptavidin-ZAP + Biotinylated-IB4 mixture are then added in 10- μ l volumes and the plates are incubated 72 hours. PMS/MTS developing reagent is added and the plates are incubated 15-30 minutes, then read at 490 nm.

Biotinylation Service

A variety of molecules, including lectins, proteins, and antibodies, can be biotinylated and reacted with avidin-labeled probes or other detection reagents for use in biological assays. Using streptavidin-ZAP and biotinylated targeting agents, specific cytotoxins can be created JUST BY MIXING!

- Step 1:** Send ATS your targeting agent (antibody, lectin, etc.).
- Step 2:** ATS biotinylates your targeting agent and returns it to you with streptavidin-ZAP.
- Step 3:** You mix together your biotinylated targeting agent and streptavidin-ZAP to specifically eliminate cells that recognize and internalize your targeting agent.



There's nothing better than a nice cozy place to curl up when the weather turns cold.

Please visit our website (www.ATSBio.com) to see a complete list of products.