Lyn A
Human, Recombinant
Expressed in Insect Cells

Product Number L 9913
Storage Temperature –70 °C

Product Description
Human recombinant Lyn A is a 56 kDa protein that is histidine-tagged at the carboxyl terminus. It is expressed in insect cells by recombinant baculovirus. The Lyn protein is a member of the Src family of non-receptor-associated protein-tyrosine kinases. Lyn A differs from LynB in having an additional 21 amino acids at the amino terminus. Both forms have comparable kinase activity in vitro.1 Lyn undergoes a concentration-dependent autophosphorylation at Tyr397 that relieves conformational constraint, thus activating the catalytic site and decreasing the accessibility of the SH2 domain.2 Lyn phosphorylates and activates the carboxyl terminal tyrosine residues of Tec, a non-receptor tyrosine kinase that is coexpressed with Lyn and acts downstream of Lyn in intracellular signaling pathways.3 Lyn down-regulates the proapoptotic function of growth arrest-DNA damage 34 (GADD34).4 It is required for normal stem cell factor-mediated responses of primary hemopoietic progenitor cells,5 for normal mast cell function, and for immunoglobulin-mediated immune cell signaling.6

Reagent
Recombinant human Lyn A is supplied as a solution in 50mM TrisHCl, pH 7.5, 0.05mM EDTA, 1mM DTT, 100mM NaCl, 0.05% Nonidet P-40, and 50% glycerol.

Precautions and Disclaimer
For laboratory use only. Not for drug, household or other uses.

Storage/Stability
After thawing store the Lyn A stock solution in single-use aliquots at –20 °C. Avoid multiple freeze-thaw cycles.

References