Histone H3.1/H4 Tetramer Human, Recombinant

Source: Purified H3.1 and H4 (NEB #M2503 and NEB #M2504) were denatured, refolded and purified by gel filtration.

Supplied in: 20 mM Tris-HCl, pH 8.0 @ 25°C, 2 M NaCl, 1 mM EDTA and 1 mM DTT. Store at –20°C. (Because of high salt, the solution does not always remain frozen.)

Note: To use as a substrate in an enzyme modification assay or other salt sensitive protocol, use 1 to 2 µl of the dimer in a minimum 20 µl reaction so that the salt concentration in the reaction is ≤ 200 mM.

Protein concentration: 10 µM (0.53 mg/ml) calculated using the molar extinction coefficient of Histone H3 (21,360) and its absorbance at 280 nm (5.6).

Quality Control Assays:

SDS-PAGE: 2.0, 4.0, 8.0 µg of Histone H3.1/H4 Tetramer Human, Recombinant were loaded on a 10–20% Tris-Glycine SDS-PAGE gel and stained with Coomassie Blue. The calculated molecular weights of the two subunits found in this protein complex are 15,272.89 Da for Histone H3.1 and 11,236.15 Da for Histone H4. Their apparent molecular weight on 10–20% Tris-Glycine SDS-PAGE gel are ~15 kDa and ~11 kDa.

Protease Assay: After incubation of 10 µg (~190 pmol) of Histone H3.1/H4 Tetramer Human, Recombinant with a standard mixture of proteins for 4 hours at 37°C, no proteolytic activity could be detected by SDS-PAGE.

References: