

Recombinant Human Mononucleosomes (H3.3 K27M)

Cat. No. NUC-048 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human histone H3.3 (H3F3A, H3.3A, H3F3, accession P84243) containing a methionine at position 27, expressed in E. coli.
Species	Human
Source	E.coli
Description	Recombinant human histone H3.3 (H3F3A, H3.3A, H3F3, accession P84243) containing a methionine at position 27, expressed in E. coli. Histone H3 is one of the four proteins that are present in the nucleosome, the basic repeating unit subunit of chromatin, consisting of 147 base pairs of DNA wrapped around an octamer of core histone proteins (H2A, H2B, H3 and H4). H3.3 is a histone variant, a non-allelic replacement histone found in regions of high chromatin turnover outside of S-phase (e.g. at actively transcribed genes). The substitution of M for K at position 27 in human H3.1 and H3.3 is a dominant negative inhibitor of the EZH2 methyltransferase complex PRC2 and is associated with pediatric brain cancer (DIPG).
Form	Mononucleosomes (H3.3 K27M), Recombinant Human (100 g total mass, DNA+protein, 54.6 g protein weight,) 10 mM Tris HCl, pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM DTT, 20% glycerol.
Molecular Mass	199,844 Da
Applications	Mononucleosomes (H3.3 K27M), Recombinant Human are highly purified and are suitable for use as substrates in enzyme screening assays or for nucleosome binding

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experiments. The absence of post-translational histone modifications makes them ideal for conducting enzyme activity and screening assays. Mononucleosomes (H3.3 K27M), Recombinant Human do not contain free DNA which could alter assayed activities.

Storage

Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.

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