

Recombinant PHF2 protein

Catalog No: 82174, 82774**Expressed In:****Quantity:** 20, 1000 µg**Source:** Human

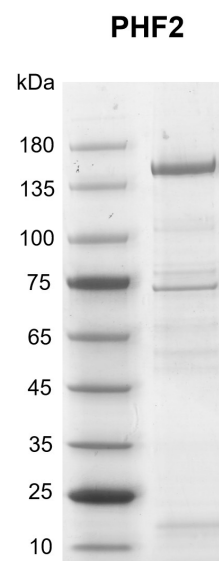
Buffer Contents: Recombinant PHF2 protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

Background: Recombinant human **PHF2 (PHD finger protein 2)**, also known by its gene symbol PHF2 and alternative names including JHDM1E (Jumonji C domain-containing histone demethylase 1E), KDM7C (lysine-specific demethylase 7C), CENP-35 (centromere protein 35), and GRC5, is a flavin adenine dinucleotide (FAD)-binding protein that functions as a histone demethylase specifically targeting dimethylated Lys-9 of histone H3 (H3K9me2) to promote transcription activation of target genes. This recombinant form, typically produced in expression systems such as *E. coli*, retains the key biochemical properties of the native protein, including its JmjC domain that confers demethylase activity and its PHDtype zinc finger that mediates binding to methylated histones. PHF2 plays critical roles in diverse biological processes including adipocyte differentiation where it promotes expression of major transcription factors, liver development as a coactivator of HNF4A, and activation of toll-like receptor 4-target inflammatory genes in macrophages.

Protein Details: Recombinant PHF2 protein was expressed in baculovirus expression system as the full length protein (accession number XP_054219087.1) with a N-terminal FLAG tag. The molecular weight of the protein is 118.53 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.



Recombinant PHF2 protein gel
4-20% SDS-PAGE gel
MW: 118.53 kDa
Purity: >85%