Name: Recombinant protein of human hepatocyte nuclear factor 4, alpha (HNF4A), transcript variant 2

Product Data Sheet

Catalog: TP317863

Gene Name: Homo sapiens hepatocyte nuclear factor 4 alpha (HNF4A), transcript variant 2
GenBank accession: NM_000457

Description: Recombinant protein of human hepatocyte nuclear factor 4, alpha (HNF4A), transcript variant 2

Amount: 20 ug

Buffer and Storage: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Source: Recombinant protein was produced with TrueORF clone, RC217863, encoding the full-length human HNF4A with C-terminal DDK tag, from human HEK293 cells.

Protein Accn: NP_000448

Gene Synonym: FRTS4; HNF4; HNF4a7; HNF4a8; HNF4a9; HNF4alpha; MODY; MODY1; NR2A1; NR2A21; TCF; TCF14

Predicted molecular weight: 52.6 kDa

Tags: C-terminal MYC/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining.

Concentration: >50 ug/mL as determined by microplate BCA method

BioActivity: HNF4A Activity Verified in a DNA-binding Assay: HNF4A (TP317863, transcript variant 2) activity was measured in a colorimetric DNA-binding assay. Purified HNF4A protein containing a C-terminal MYC/DDK tag was incubated with biotinylated double-stranded oligonucleotide containing the HNF4A consensus DNA-binding sequence (see below). Following incubation, the reaction was transferred to a streptavidin-coated microplate to allow capture of the DNA-protein complex. After washing, the captured protein was detected with an anti-DDK peroxidase conjugate and colorimetric signal detection with TMB. Specificity of the protein-DNA interaction was confirmed by carrying out the binding in the presence of an unlabeled competitor oligonucleotide and by comparison to binding to an oligonucleotide containing a mutation in the consensus binding sequence.