

Recombinant Human HIF1A Protein

Catalog Number:PDEH100078



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Hypoxia-inducible factor 1-alpha;HIF-1-alpha;HIF1-alpha;ARNT-interacting protein;Basic-helix-loop-helix-PAS protein MOP1;Class E basic helix-loop-helix protein 78;bHLHe78;Member of PAS protein 1;PAS domain-containing protein 8;BHLHE78;MOP1;PASD8
Species	Human
Expression Host	E.coli
Sequence	Ser 576-Gln785
Accession	Q16665
Calculated Molecular Weight	25.2 kDa
Observed molecular weight	26 kDa
Tag	N-His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol, 0.01% tween-80. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
Reconstitution	Please refer to the printed manual for detailed information.

Background

Functions as a master transcriptional regulator of the adaptive response to hypoxia. Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Heterodimerizes with ARNT; heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters.

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