
Product Data Sheet

Product Name: HIF1A Human, His

Cat. No.: GP23640

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hypoxia-inducible factor 1 alpha; HIF-1 alpha; HIF1 alpha; ARNT-interacting protein; Member of PAS protein 1; Basic-helix-loop-helix-PAS protein MOP1; HIF1A; MOP1; HIF1; PASD8; HIF-1A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSFDQLSPLE SSSASPESAS PQSTVTVFQQ TQIQEPTANA TTTTATTDEL KVTVKDRMED IKILIASPSP THIHKETTSATSSPYRDTQS RTASPNRAGK GVIEQTEKSH PRSPNVLSVA LSQRTTVPEE ELNPKILALQ NAQRKRKMEH DGSLFQAVGI GTLLQPDDH AATTSLSWKR VKGCKSSEQN GMEQKTIILI PSDLACRLLG Q.		
Formulation	HIF1A Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.2M NaCl & 10% glycerol.		

Introduction

HIF1A has a role as a master transcriptional monitor of the adaptive response to hypoxia. Under hypoxic conditions HIF1A activates the transcription of over 40 genes, including, erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, and genes whose protein products increase oxygen release or facilitate metabolic adaptation to hypoxia. HIF1A functions as an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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HIF1A Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 231 amino acids (576-785 a.a.) and having a molecular mass of 25.1 kDa. The HIF1A is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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