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- Mindermengenzuschlag
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Datasheet

HIF1A (Human) Recombinant Protein (P01)

Catalog Number: H00003091-P01

Regulation Status: For research use only (RUO)

Product Description: Human HIF1A full-length ORF (NP_851397.1, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEV
FYELAHQLPLPHNVSSHLDKASVMRLTISYLVRKLLD
AGDLIEDDMKAQMNCFYLKALDGFVMVLTDGDMY
ISDNVNYMGLTQFELTGHSVDFTHPCDHEEMREML
THRNLVKKGKEQNTQRSFFLRMKCTLSRGRTMNIK
SATWKVLHCTGHIHVYDTSNQPQCGYKPPMTCLVL
ICEPIPHPSNIEIPLDSKTFLSRHSMDKFSYCDERITEL
MGYEPEELLGRSIYEYHALDSDHLTKTHDMFTKGQ
VTTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIV
CVNYVVGIIQHDLIFSLQQTECVLPVSSDMKMTQL
FTKVESEDTSFLDKLKEPDALTLLAPAAGDTIISLDF
GSNDTETDDQQLLEEVPLYNDVMLPSPNEKLQINLAM
SPLPTAETPKPLRSSADPALNQEVALKLEPNPESLELS
FTMPQIQDQTPSPSDGSTRQSSPEPNPSEYCFYVDS
DMVNEFKLELVEKLFADTEAKNPFSTQDLDLEMLA
PYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVTV
FQQTQIQEPTANATTTTATDELKTVTKDRMEDIKILIAS
PSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQ
TEKSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQ
RKRKMEHDGSLFQAVGII

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 109.1

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3091

Gene Symbol: HIF1A

Gene Alias: HIF-1alpha, HIF1, HIF1-ALPHA, MOP1, PASD8, bHLHe78

Gene Summary: Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq]

References:

1. The E3 ubiquitin ligase Pellino3 protects against obesity-induced inflammation and insulin resistance. Yang S, Wang B, Humphries F, Hogan AE, O'Shea D, Moynagh PN. Immunity(2014), doi: 10.1016/j.immuni.2014.11.013.
2. A new method to assay hypoxia-inducible factor-1 based on small molecule binding DNA. Yang N, Li H, Yin T, Huang Y, Sun L, Li G. Anal Chim Acta. 2014 Aug 1;838:31-6.
3. Hypoxia Inducible Factors Promotes Alveolar Development and Regeneration. Vadivel A, Alphonse RS, Etches N, van Haften T, Collins JJ Am J Respir Cell Mol Biol. 2013 Aug 20.