

Hypoxia Inducible Factor 1 Alpha (HIF1a) Active Protein | HIF1a active protein

Active Hypoxia Inducible Factor 1 Alpha (HIF1a)

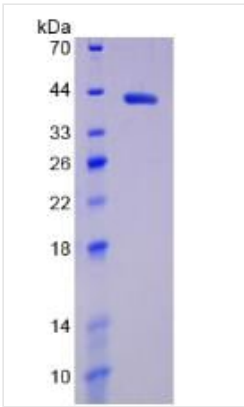
CATALOG # AAA148241	HOST E Coli	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	----------------------------	---

PRODUCT SYNONYMS

Hypoxia Inducible Factor 1 Alpha (HIF1a); Active Hypoxia Inducible Factor 1 Alpha (HIF1a); HIF1-A; MOP1; PASD8; Basic Helix-Loop-Helix Transcription Factor; ARNT-interacting protein; Basic-helix-loop-helix-PAS protein MOP1; Class E basic helix-loop-helix protein 78; HIF1a active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	850
Applicable Applications for HIF1a active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Thr218~Thr506
Isoelectric Point	5



SDS-PAGE

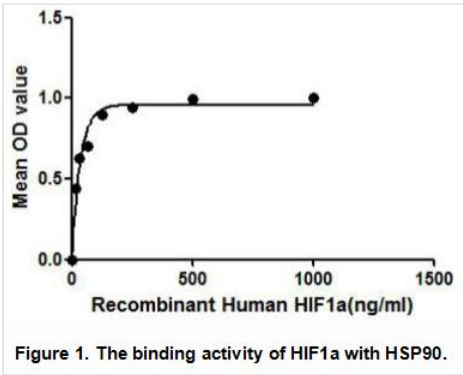


Figure 1. The binding activity of HIF1a with HSP90.

Activity
HIF1a (Hypoxia-inducible factor 1-alpha) is a subunit of a transcription factor, which functions as a master transcriptional regulator of the adaptive response to hypoxia. The protein chaperone heat shock protein 90 (Hsp90) is a major regulator of different transcription factors, including HIF1a, thus a binding ELISA assay was conducted to detect the interaction of HIF1a and HSP90. Briefly, recombinant human HIF1a were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to HSP90-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-HIF1a pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of of HIF1a and HSP90 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for HIF1a active protein	Tumor immunity; Cardiovascular biology; Reproductive science
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	340545531
NCBI GeneID	3091
NCBI Accession #	NP_001230013.1
NCBI GenBank Nucleotide #	NM_001243084.1
UniProt Accession #	Q16665; Q53XP6; Q96PT9; Q9UPB1; C0LZJ3
Molecular Weight	Predicted Molecular Weight: 35.9kDa Accurate Molecular Weight: 40kDa
NCBI Official Full Name	hypoxia-inducible factor 1-alpha isoform 3
NCBI Official Synonym Full Names	hypoxia inducible factor 1 alpha subunit
NCBI Official Symbol	HIF1A
NCBI Official Synonym Symbols	HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF-1-alpha
NCBI Protein Information	hypoxia-inducible factor 1-alpha
UniProt Protein Name	Hypoxia-inducible factor 1-alpha
UniProt Gene Name	HIF1A
UniProt Synonym Gene Names	bHLHe78

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/hypoxia-inducible-factor-1-alpha-hif1a/148241>