

## Product datasheet for PH302843

### HIF1AN (NM\_017902) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HIF1AN MS Standard C13 and N15-labeled recombinant protein (NP_060372)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202843
Predicted MW:	40.3 kDa
Protein Sequence:	>RC202843 protein sequence Red=Cloning site Green=Tags(s)

MAATAAEAVASGSGEPREEAGALGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEPPVLTDTNLV  
YPALKWDLEYLQENIGNGDFSVYSASTHKFLYYDEKKMANFQNFKPRSNREEMKFHEFVEKLQDIQQRGG  
EERLYLQQTLNDTVGRKIVMDFLGFNWNWINKQQKRGWGQLTSNLLLIGMEGNVTPAHYDEQQNFFAQI  
KGYKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNDPYERFPNFQNVVGYETVVGP GDVLYIPMYWWHH  
IESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIEKMLGEALGNPQEVGPLLNTMIKGRYN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_060372</a></u>
RefSeq Size:	6928
RefSeq ORF:	1047
Synonyms:	FIH1
Locus ID:	55662



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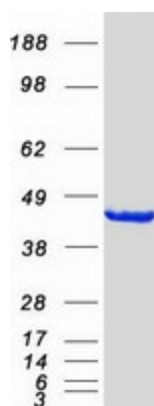
UniProt ID: [Q9NWT6](#)

Cytogenetics: 10q24.31

**Summary:** Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

### Product images:



Coomassie blue staining of purified HIF1AN protein (Cat# [TP302843]). The protein was produced from HEK293T cells transfected with HIF1AN cDNA clone (Cat# [RC202843]) using MegaTran 2.0 (Cat# [TT210002]).