

## Product datasheet for **TP525292**

### Hif1an (NM\_176958) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse hypoxia-inducible factor 1, alpha subunit inhibitor (Hif1an), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR225292 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MAATAAEVAASGSGEAREEEAEAPGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEPEVVLTDNLV  
YPALKWDLEYLQENIGNGDFSVYSASTHKFLYDEKKMGNFQNFKPRSNREEIKFHEFVEKLQAIQQRGG  
EERLYLQQTLDNTVGRKIVMDFLGFNWNWINKQQGKRGWGQLTSNLLLIGMEGNVTPAHYDEQQNFFAQI  
KGHKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNPDYERFPNFRNVVGYETVWGPGDVLYIPMYWWHH  
IESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIKMLGEALGNPQEVGPLLNTMIKGRYN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	40.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_795932</a>
Locus ID:	319594
UniProt ID:	<a href="#">Q8BLR9</a>



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RefSeq Size: 6190

Cytogenetics: 19 C3

RefSeq ORF: 1047

Synonyms: 2310046M24Rik; A830014H24Rik; FIH; FIH1

**Summary:** Hydroxylates HIF-1 alpha at 'Asn-799' 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 (By similarity). Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]