

Product datasheet for PH302583

ALKBH7 (NM_032306) Human Mass Spec Standard

Product data:

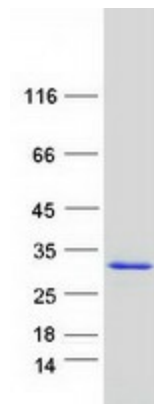
Product Type:	Mass Spec Standards
Description:	ALKBH7 MS Standard C13 and N15-labeled recombinant protein (NP_115682)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202583
Predicted MW:	24.5 kDa
Protein Sequence:	>RC202583 protein sequence Red=Cloning site Green=Tags(s) MAGTGLLALRTLPGPSWVRGSGPSVLSRLQDAAVVRPGFLSTAEETLSRELEPELRRRRYEYDHWDAAI HGFRETEKSRWSEASRAILQRVQAAAFGPGQTLSSVHVDLEARGYIKPHVDSIKFCGATIAGLSLLSP SVMRLVHTQEPGEWLELLLEPGSLYILRGSARYDFSHEILRDEESFFGERRIPRGRRIISVICRSLPEGMG PGESGQPPAC TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_115682
RefSeq Size:	1331
RefSeq ORF:	663
Synonyms:	ABH7; SPATA11; UNQ6002
Locus ID:	84266
UniProt ID:	Q9BT30


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Cytogenetics: 19p13.3

Summary: May function as protein hydroxylase; can catalyze auto-hydroxylation at Leu-110 (in vitro), but this activity may be due to the absence of the true substrate (PubMed:25122757). Required to induce programmed necrosis in response to DNA damage caused by cytotoxic alkylating agents. Acts by triggering the collapse of mitochondrial membrane potential and loss of mitochondrial function that leads to energy depletion and cell death (PubMed:23666923). ALKBH7-mediated necrosis is probably required to prevent the accumulation of cells with DNA damage (PubMed:23666923). Does not display DNA demethylase activity (PubMed:23666923). Involved in fatty acid metabolism (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified ALKBH7 protein (Cat# [TP302583]). The protein was produced from HEK293T cells transfected with ALKBH7 cDNA clone (Cat# [RC202583]) using MegaTran 2.0 (Cat# [TT210002]).