

Product datasheet for TP517682

Kars (NM_053092) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse lysyl-tRNA synthetase (Kars), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR217682 protein sequence Red =Cloning site Green =Tags(s)

MATLQESEVKVDGEQKLSKNELKRRLKAEKKLAEKEAKQKELSEKQLNQTASAPNHTADNGVGAEETLD
PNQYYKIRSQAVQQLKVTGEDPYPHKFHVDISLTQFIQEYSHLQPGDHLTDVTLKVAGRIHAKRASGGKL
IFYDLRGEGVKLQVMANSRNYKSEEEFVHINNKLRGDIIGVEGNPGKTKKGELSIIIPQEITLLSPLHM
LPHLHFGLKDKETRYRQRYLDLILNDFVRQKFIVRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKP
FITYHNELDMNLYMRIAPELYHKMLVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLME
ITEKMLSGMVKSITGSYKITYHPDGPEGQAYEVDFTPPFRISMVEELEKALGVKLPETSLFETEETRKI
LDDICVAKAVECPPPRTTARLLDKLVGEFLEVTCISPTFICDHPQIMSPLAKWHRSKEGLTERFELFVMK
KEICNAYTELNDPVRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRLTMFLTDSN
NIKEVLLFPAMKPEDKKETAATTETPESTEASPSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	67.8 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.



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RefSeq:	NP_444322
Locus ID:	85305
UniProt ID:	Q99MN1 , Q3TIV6
RefSeq Size:	2045
Cytogenetics:	8 58.27 cM
RefSeq ORF:	1788
Synonyms:	AA589550; AL024334; AL033315; AL033367; D8Erttd698e; D8Wsu108e; LysRS; mKIAA0070
Summary:	Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA. When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages. Catalyzes the synthesis of the signaling molecule diadenosine tetraphosphate (Ap4A), and thereby mediates disruption of the complex between HINT1 and MITF and the concomitant activation of MITF transcriptional activity.[UniProtKB/Swiss-Prot Function]