

## Product datasheet for TP526270

### Epha7 (NM\_010141) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse Eph receptor A7 (Epha7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR226270 representing NM_010141
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MVQTRFPSWIILCYIWLLGFAHTGEAQAAKEVLLLDLSKAQQTELEWISSPPSGWEEISGLDENYTPIRT  
YQVCQVMEPNQNNWLRTNWSKGNARIFVELKFTLRDCNSLPGVLGTCKETFNLYYYETDYDTGRNIRE  
NLYVKIDTIAADESFTQGDGGERKMLNTEVREIGPLSKKGFYLAQDVGACIALVSVKVVYKCKWSIVE  
NLAVFPDVTGTSEFSSLVEVRGTCVSSAEAAAENSPRMHCSAEGEWLVPKICKAGYQQKGDTCPCG  
RRFYKSSSQLQCSRCPTHFSFDREGSSRCECEDGYRAPSDPPYVACTRPPSAPQNLIFNINQTTVSLE  
WSPPADNGGRNDVTYRILCKRCSWEQGEVPCGSNIGYMPQQTGLEDNVYVMDLLAHANYTFEVEAVNG  
VSDLRSRQLFAAVSITGQAAPSQVSGVMKERVLQRSVQLSWQEPHPNGVITEYEIKYKEDQQRERTY  
STLTKTSTSASINNLKPGTVYVFQIRAVTAAGYGNYSRPLDVATLEEASGKMFEATAVSSEQNPNVIAV  
VAVAGTIILVFMVFGFIIGRRHCGYSKADQEGDEELYFHFKFPKTYIDPETYEDPNRAVHQFAKELDA  
SCIKIERVIGAGEFGEVCSGRLKLPKRDVAVAIKTLKVGYTEKQRRDFLCEASIMGQFDHPNVHLEGV  
VTRGKPVMIIEFMENGALDAFLRKHDGQFTVIQLVGMRLGIAAGMRYLADMGYVHRDLAARNILVNSNL  
VCKVSDFLSRVIEDDPEAVYTTTGGKIPVRWTAPEAIQYRKFTSASDVWSYGIVMWEVMSYGERPYWDM  
SNQDVIKAIIEGYRLPAPMDCPAGLHQLMLDCWQKDRAERPKEQIVGILDKMIRNPSSLKTPLGTCSR  
LSPLLDQSTPDFTAFCSVGEWLQAIKMERYKDNFTAAGYNSLESVARMITDDVMSLGITLVGHQKKIMSS  
IQTMRQMLHLHGTGIQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	112.3 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



[View online »](#)

<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_034271</a>
<b>Locus ID:</b>	13841
<b>UniProt ID:</b>	<a href="#">Q61772</a> , <a href="#">Q8CC52</a>
<b>RefSeq Size:</b>	6732
<b>Cytogenetics:</b>	4 12.42 cM
<b>RefSeq ORF:</b>	2994
<b>Synonyms:</b>	Cek11; Ebk; Ehk3; Hek11; Mdk1
<b>Summary:</b>	Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 is a cognate/functional ligand for EPHA7 and their interaction regulates brain development modulating cell-cell adhesion and repulsion. Has a repellent activity on axons and is for instance involved in the guidance of corticothalamic axons and in the proper topographic mapping of retinal axons to the colliculus. May also regulate brain development through a caspase(CASP3)-dependent proapoptotic activity. Forward signaling may result in activation of components of the ERK signaling pathway including MAP2K1, MAP2K2, MAPK1 AND MAPK3 which are phosphorylated upon activation of EPHA7. Isoform 4 which lacks the kinase domain may regulate isoform 1 adhesive properties. [UniProtKB/Swiss-Prot Function]