

Datasheet for ABIN7554920
PEG10 Protein (AA 1-708) (His tag)



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Overview

Quantity:	1 mg
Target:	PEG10
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEG10 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PEG10 Protein expressed in mammalien cells.
Sequence:	<p>MTERRRDELS EEINNLREKV MKQSEENNL QSQVQKLTEE NTTLREQVEP TPEDEDDIE LRGAAAAAAP PPIIEECPE DLPEKFDGNP DMLAPFMAQC QIFMEKSTRD FSVDRVRVCF VTSMMTGRAA RWASAKLERS HYLMHNYPAF MMEMKHFVFD PQRREVAKRK IRRLRQGMGS VIDYSNAFQM IAQDLWNEP ALIDQYHEGL SDHIQEELSH LEVAKLSAL IGQCIHIERR LARAAAARKP RSPPRALVLP HIAHHQVDP TEPVGGARMR LTQEEKERRR KLNLCLYCGT GGHYADNCPA KASKSSPAGK LPGPAVEGPS ATGPEIIRSP QDDASSPHLQ VMLQIHLPGR HTLFVRAMID SGASGNFIDH EYVAQNGIPL RIKDWPIIVE AIDGRPIASG PVVHETHDLI VDLGDHREVL SFDVTQSPFF PVVLGVRWLS THDPNITWST RSIVFDSEYC RYHCRMYSPI PPSLPPPAPQ PPLYYPVDGY RVYQPVRYYY VQNVYTPVDE HVYDPDHLVD PHIEMIPGAH SIPSGHVYSL SEPEMAALRD FVARNVKDGL ITPTIAPNGA QVLQVKGWVK LQVSYDCRAP NNFTIQNQYP RLSIPNLEDQ AHLATYTEFV PQIPGYQTYP TYAAAYPTYPV GFAWYPVGRD</p>

GQGRSLYVPV MITWNPHWYR QPPVPQYPPP QPPPPPPPPP PPSYSTL **Sequence without tag.**

The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: PEG10

Alternative Name: PEG10 ([PEG10 Products](#))

Background: Retrotransposon-derived protein PEG10 (Embryonal carcinoma differentiation-regulated protein) (Mammalian retrotransposon-derived protein 2) (Myelin expression factor 3-like protein 1) (MEF3-like protein 1) (Paternally expressed gene 10 protein) (Retrotransposon gag domain-containing protein 3) (Retrotransposon-derived gag-like polyprotein) (Ty3/Gypsy-like protein),FUNCTION: Retrotransposon-derived protein that binds its own mRNA and self-assembles into virion-like capsids (PubMed:34413232). Forms virion-like extracellular vesicles that encapsulate their own mRNA and are released from cells, enabling intercellular transfer of PEG10 mRNA (PubMed:34413232). Binds its own mRNA in the 5'-UTR region, in the region near the boundary between the nucleocapsid (NC) and protease (PRO) coding sequences and in the

Target Details

beginning of the 3'-UTR region (PubMed:34413232). Involved in placenta formation: required for trophoblast stem cells differentiation (By similarity). Involved at the immediate early stage of adipocyte differentiation (By similarity). Overexpressed in many cancers and enhances tumor progression: promotes cell proliferation by driving cell cycle progression from G0/G1 (PubMed:12810624, PubMed:16423995, PubMed:26235627, PubMed:28193232). Enhances cancer progression by inhibiting the TGF-beta signaling, possibly via interaction with the TGF-beta receptor ACVRL1 (PubMed:15611116, PubMed:26235627, PubMed:30094509). May bind to the 5'-GCCTGTCTTT-3' DNA sequence of the MB1 domain in the myelin basic protein (MBP) promoter, additional evidences are however required to confirm this result (By similarity).

{ECO:0000250|UniProtKB:Q7TN75, ECO:0000269|PubMed:12810624, ECO:0000269|PubMed:15611116, ECO:0000269|PubMed:16423995, ECO:0000269|PubMed:26235627, ECO:0000269|PubMed:28193232, ECO:0000269|PubMed:30094509, ECO:0000269|PubMed:34413232}.

Molecular Weight: 80.2 kDa

UniProt: [Q86TG7](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months