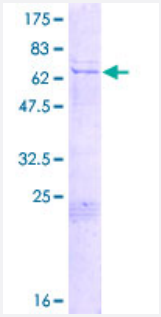
Full-Length

PEG10 (Human) Recombinant Protein (P01)

Catalog # H00023089-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PEG10 full-length ORF (NP_001035242.1, 1 a.a. - 325 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MTERRRDELSEEINNLREKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDDIELRGAA AAAAPPPPIEEECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDRVRVCFVTSMMTGR AARWASAKLERSHYLMHNYPAFMMEMKHVFEDPQRREVAKRKIRRLRQGMGSVIDYSNAFQMIA QDLDWNEPALIDQYHEGLSDHIQEELSHLEVAKSLSALIGQCIHIERRLARAAAARKPRSPPRALVL PHIASHHQVDPTEPVGGARMRLTQEEKERRRKLNLCLYCGTGGHYADNCPAKASKSSPAGNSP APL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	63.4
Interspecies Antigen Sequence	Mouse (65)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PEG10

Entrez GeneID	23089
GeneBank Accession#	NM_001040152.1
Protein Accession#	NP_001035242.1
Gene Name	PEG10
Gene Alias	Edr, HB-1, KIAA1051, MEF3L, Mar2, Mart2, RGAG3
Gene Description	paternally expressed 10
Omim ID	609810
Gene Ontology	Hyperlink
Gene Summary	This gene includes two overlapping reading frames of the same transcript encoding distinct isoforms. The shorter isoform has a CCHC-type zinc finger motif containing a sequence characteristic of gag proteins of most retroviruses and some retrotransposons, and it functions in part by interacting with members of the TGF-beta receptor family. The longer isoform has the active-site DSG consensus sequence of the protease domain of pol proteins. The longer isoform is the result of -1 translational frameshifting that is also seen in some retroviruses. Expression of these two isoforms only comes from the paternal allele due to imprinting. Increased gene expression (as observed by an increase in mRNA levels) is associated with hepatocellular carcinomas. [provided by RefSeq
Other Designations	MEF3 like 1|embryonal carcinoma differentiation regulated|retrotransposon gag domain containing 3