

Product datasheet for PH304976

Prealbumin (TTR) (NM_000371) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TTR MS Standard C13 and N15-labeled recombinant protein (NP_000362)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204976
Predicted MW:	15.9 kDa
Protein Sequence:	>RC204976 protein sequence Red=Cloning site Green=Tags(s) MASHRLLLLCLAGLVFVSEAGPTGTGESKCPLMVKVLDAVRGSPAINVAVHVFRKAADDTWEPFASGKTS ESGELHGLTTEEEFVEGIYKVEIDTKSYWKALGISPFHEHAEVVFTANDSGPRRYTIAALLSPYSYSTTA VVTNPKE 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_000362
RefSeq Size:	938
RefSeq ORF:	441
Synonyms:	ATTR; CTS; CTS1; HEL111; HsT2651; PALB; TBPA; TTN
Locus ID:	7276
UniProt ID:	P02766 , E9KL36



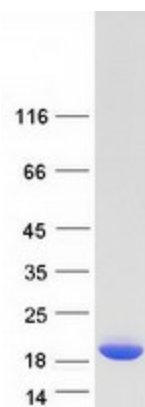
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Cytogenetics: 18q12.1

Summary: This gene encodes one of the three prealbumins, which include alpha-1-antitrypsin, transthyretin and orosomucoid. The encoded protein, transthyretin, is a homo-tetrameric carrier protein, which transports thyroid hormones in the plasma and cerebrospinal fluid. It is also involved in the transport of retinol (vitamin A) in the plasma by associating with retinol-binding protein. The protein may also be involved in other intracellular processes including proteolysis, nerve regeneration, autophagy and glucose homeostasis. Mutations in this gene are associated with amyloid deposition, predominantly affecting peripheral nerves or the heart, while a small percentage of the gene mutations are non-amyloidogenic. The mutations are implicated in the etiology of several diseases, including amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis and carpal tunnel syndrome. [provided by RefSeq, Aug 2017]

Protein Families: ES Cell Differentiation/IPS, Secreted Protein

Product images:



Coomassie blue staining of purified TTR protein (Cat# [TP304976]). The protein was produced from HEK293T cells transfected with TTR cDNA clone (Cat# [RC204976]) using MegaTran 2.0 (Cat# [TT210002]).