

Product datasheet for PH321390

EMA (MUC1) (NM_001018016) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MUC1 MS Standard C13 and N15-labeled recombinant protein (NP_001018016)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221390
Predicted MW:	28.4 kDa
Protein Sequence:	>RC221390 protein sequence Red=Cloning site Green=Tags(s) MTPGTQSPFFLLLLLTVLTATTAPKPATVVTGSGHASSTPGGEKETSATQRSSVPSSTEKNAFNSSLEDP STDYYQELQRDISEMFLQIYKQGGFLGLSNIKFRPGSVVQLTLAFREGTINVHDVETQFNQYKTEAASR YNLTISDVSVDVPPFSAQSGAGVPGWGIALLVLCVLVALAIVYLIALAVCQCRRKNYGQLDIFPARD TYHPMSEYPTYHTHGRYVPPSSTRSPYEKVSAGNGGSSLSYTNPAVAATSANL 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_001018016
RefSeq Size:	1193
RefSeq ORF:	792
Synonyms:	ADMCKD; ADMCKD1; ADTKD2; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM
Locus ID:	4582



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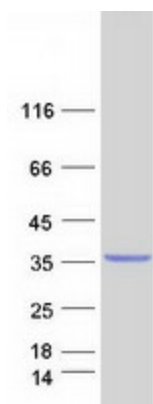
UniProt ID: [P15941](#)

Cytogenetics: 1q22

Summary: This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified MUC1 protein (Cat# [TP321390]). The protein was produced from HEK293T cells transfected with MUC1 cDNA clone (Cat# [RC221390]) using MegaTran 2.0 (Cat# [TT210002]).