

Product datasheet for PH324679

ZFAND1 (NM_024699) Human Mass Spec Standard

Product data:

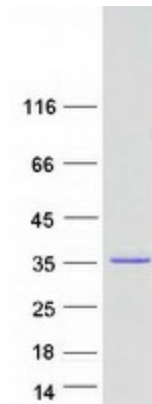
Product Type:	Mass Spec Standards
Description:	ZFAND1 MS Standard C13 and N15-labeled recombinant protein (NP_078975)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224679
Predicted MW:	30.6 kDa
Protein Sequence:	>RC224679 representing NM_024699 Red=Cloning site Green=Tags(s) MAELDIGQHCQVEHCRQRDFLPFVCDDCSGIFCLEHRSRESHGCPEVTVINERLKTQHTSYPCSFKDCA ERELVAVICPYCEKNFCLRHRHQSDHECEKLEIPKPRMAATQKLVKDIIDSKTGETASKRWGAKNSETA AKVALMKLKMHADGDKSLPQTERIYFQVFLPKGSKEKSKPMFFCHRWSIGKAIDFAASLARLKNDDNNKFT AKKLRLCHITSGEALPLDHTLETWIAKEDCPLYNGGNIILEYLNDEEQFCKNVESYLE TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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_078975
RefSeq Size:	1793
RefSeq ORF:	804
Locus ID:	79752
UniProt ID:	Q8TCF1
Cytogenetics:	8q21.13



[View online »](#)

Summary:

Plays a role in the regulation of cytoplasmic stress granules (SGs) turnover. SGs are dynamic and transient cytoplasmic ribonucleoprotein assemblies important for cellular protein homeostasis when protein production is suspended after acute exogenous stress (PubMed:29804830). Associates with SGs and is involved in the efficient and specific arsenite-induced clearance process of SGs through the recruitment of the ubiquitin-selective ATPase VCP and the 26S proteasome (PubMed:29804830). This process requires both complexes for efficient degradation of damaged ubiquitinated SG proteins during recovery from arsenite stress, and hence avoiding aberrant cytoplasmic SGs degradation via autophagy (PubMed:29804830).[UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified ZFAND1 protein (Cat# [TP324679]). The protein was produced from HEK293T cells transfected with ZFAND1 cDNA clone (Cat# [RC224679]) using MegaTran 2.0 (Cat# [TT210002]).