

Product datasheet for PH317362

Peroxiredoxin 5 (PRDX5) (NM_181652) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PRDX5 MS Standard C13 and N15-labeled recombinant protein (NP_857635)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217362
Predicted MW:	12.8 kDa
Protein Sequence:	>RC217362 protein sequence Red =Cloning site Green =Tags(s) MGLAGVICALRRSAGYILVGGAGGQSAAAAARRCSEGEWASGGVRSFSRAAAAMAPIKVRLADPTGAFGK ETDLLLDDSLVSIFGNRRLKRFSMVVQDGIVKALNVEPDGTGLTCSLAPNIISQL 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_857635
RefSeq Size:	646
RefSeq ORF:	375
Synonyms:	ACR1; AOEB166; B166; HEL-S-55; PLP; PMP20; PRDX6; prx-V; PRXV; SBB110
Locus ID:	25824
UniProt ID:	P30044
Cytogenetics:	11q13.1



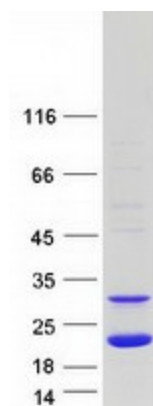
[View online »](#)

Summary:

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017]

Protein Families:

Druggable Genome

Product images:

Coomassie blue staining of purified PRDX5 protein (Cat# [TP317362]). The protein was produced from HEK293T cells transfected with PRDX5 cDNA clone (Cat# [RC217362]) using MegaTran 2.0 (Cat# [TT210002]).