

Product datasheet for PH305542

C6orf57 (SDHAF4) (NM_145267) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	C6orf57 MS Standard C13 and N15-labeled recombinant protein (NP_660310)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205542
Predicted MW:	12.2 kDa
Protein Sequence:	>RC205542 protein sequence Red=Cloning site Green=Tags(s) MTPSRLPWLLSWVSATAWRAARSPLLCHSLRKTSSSQGGKSELVKQSLKKPMLPEGRFDAPEDSHLEKEP LEKFPDDVNPVTKEKGGPRGPEPTRYGDWERKGRCIDF 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_660310
RefSeq Size:	526
RefSeq ORF:	324
Synonyms:	C6orf57; Sdh8
Locus ID:	135154
UniProt ID:	Q5VUM1
Cytogenetics:	6q13



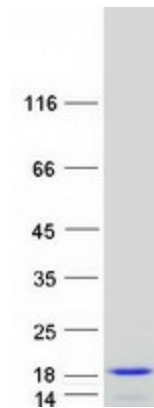
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Summary:

Plays an essential role in the assembly of succinate dehydrogenase (SDH), an enzyme complex (also referred to as respiratory complex II) that is a component of both the tricarboxylic acid (TCA) cycle and the mitochondrial electron transport chain, and which couples the oxidation of succinate to fumarate with the reduction of ubiquinone (coenzyme Q) to ubiquinol (PubMed:24954416). Binds to the flavoprotein subunit SDHA in its FAD-bound form, blocking the generation of excess reactive oxygen species (ROS) and facilitating its assembly with the iron-sulfur protein subunit SDHB into the SDH catalytic dimer (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families:

Secreted Protein

Product images:

Coomassie blue staining of purified SDHAF4 protein (Cat# [TP305542]). The protein was produced from HEK293T cells transfected with SDHAF4 cDNA clone (Cat# [RC205542]) using MegaTran 2.0 (Cat# [TT210002]).