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Product datasheet for PH302891

Cpn10 (HSPE1) (NM_002157) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HSPE1 MS Standard C13 and N15-labeled recombinant protein (NP_002148)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202891
Predicted MW:	10.9 kDa
Protein Sequence:	>RC202891 protein sequence Red=Cloning site Green=Tags(s) MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDK VLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD 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_002148
RefSeq Size:	965
RefSeq ORF:	306
Synonyms:	CPN10; EPF; GROES; HSP10
Locus ID:	3336
UniProt ID:	P61604, A0A384N6A4
Cytogenetics:	2q33.1

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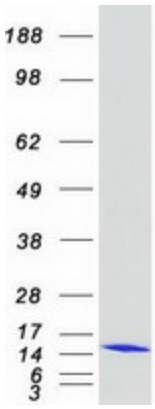
Summary: This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2. Naturally occurring read-through transcription occurs between this locus and the neighboring locus MOBKL3.[provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Product images:



Coomassie blue staining of purified HSPE1 protein (Cat# [TP302891]). The protein was produced from HEK293T cells transfected with HSPE1 cDNA clone (Cat# [RC202891]) using MegaTran 2.0 (Cat# [TT210002]).