

## Product datasheet for PH304235

### DHPS (NM\_001930) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DHPS MS Standard C13 and N15-labeled recombinant protein (NP_001921)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204235
Predicted MW:	41 kDa
Protein Sequence:	>RC204235 protein sequence Red=Cloning site Green=Tags(s)

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGBVNYRALLEAFGTTGFQATNFGRAVQQVNAMI  
EKKLEPLSQDEQHADLTQSRRLTSTIFLGYTSNLISSGIRETIRYL VQHNMVDLVTTAGGVEEDLI  
KCLAPTYLGEFSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPI LDQMVMQNTGKWKTPSKMIARL  
GKEINNPESVYYWAQKNHIPVFSAL TDGSLGDMIFFHSYKNPGLVLDIVEDLRL INTQAI FAKCTGMII  
LGGGVVKHHIANANLMRNGADYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLL  
VAETFAQKMDAFMHEKNED

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u>NP_001921</u>
RefSeq Size:	1361
RefSeq ORF:	1107
Synonyms:	DHS; DS; MIG13; NEDSSWI
Locus ID:	1725



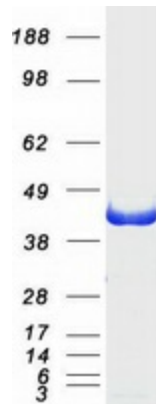
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UniProt ID: [P49366](#), [A0A024R7D0](#)

Cytogenetics: 19p13.13

**Summary:** This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring the butylamine moiety of spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2011]

### Product images:



Coomassie blue staining of purified DHPS protein (Cat# [TP304235]). The protein was produced from HEK293T cells transfected with DHPS cDNA clone (Cat# [RC204235]) using MegaTran 2.0 (Cat# [TT210002]).