

## Product datasheet for PH300089

### DHFR (NM\_000791) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DHFR MS Standard C13 and N15-labeled recombinant protein (NP_000782)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200089
Predicted MW:	21.5 kDa
Protein Sequence:	>RC200089 protein sequence Red=Cloning site Green=Tags(s)  MVGSLNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRM TTTSSVEGKQNLVIMGKKTWFSIPEKNRPLKG RINLVL SRELKEPPQGAHFLSRSLDDALKLTEQPELANKVDMVWIVGGSSVYKEAMNHPGHLKLFVTRIM QDFESDTFFPEIDLEKYKLLPEYPGVLSDVQEEKGIKYKFEVYEKND  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:	<a href="#">NP_000782</a>
RefSeq Size:	3932
RefSeq ORF:	561
Synonyms:	DHFRP1; DYR
Locus ID:	1719
UniProt ID:	<a href="#">P00374</a> , <a href="#">B0YJ76</a>



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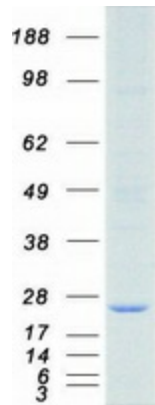
**Cytogenetics:** 5q14.1

**Summary:** Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Folate biosynthesis, Metabolic pathways, One carbon pool by folate

### Product images:



Coomassie blue staining of purified DHFR protein (Cat# [TP300089]). The protein was produced from HEK293T cells transfected with DHFR cDNA clone (Cat# [RC200089]) using MegaTran 2.0 (Cat# [TT210002]).