

## Product datasheet for **AR09852PU-L**

### DHFR / DHFRP1 (1-187, His-tag) Mouse Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	DHFR / DHFRP1 (1-187, His-tag) mouse recombinant protein, 0.5 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MVRPLNCIVA VSQNMGIGKN GDLWPPLRN EFKYFQRMTT TSSVEGKQNL VIMGRKTWFS IPEKNRPLKD RINIVLSREL KEPPRGAFHL AKSLDDALRL IEQPELASKV DMVWIVGGSS VYQEAMNQPQ HLRLFVTRIM QEFESDTHFP EIDLKGYKLL PEYPGVLSEV QEEKGIKYKF EVYEKKD
Tag:	His-tag
Predicted MW:	23.8 kDa
Concentration:	lot specific
Purity:	>95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT, 0.1M NaCl
Bioactivity:	Specific: > 0.2 units/mg, in which one unit will convert 1.0 umole of 7,8- dihydrofolate and beta - NADPH to 5,6,7,8 - tetrahydrofolate and beta - NADP per min at pH 6.5 at 25°C <b>Activity Assay:</b> 1. Prepare a 1.55 ml assay buffer. The final concentrations are 50 mM potassium phosphate, 0.072 mM dihydrofolic acid, 0.1 mM beta-nicotinamide dinucleotide phosphate and 0.003 % (w/v) bovine serum albumin. 2. Add 50 ul of recombinant DHFR protein in various concentrations (2 ug, 5 ug) in assay buffer. 3. Mix by inversion and record the decrease at A340nm for 5 minutes.
Endotoxin:	< 1 EU per 1ug of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant mouse DHFR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_034179</a>
<b>Locus ID:</b>	13361
<b>UniProt ID:</b>	<a href="#">P00375</a> , <a href="#">Q544T5</a>
<b>Cytogenetics:</b>	13 47.64 cM
<b>Synonyms:</b>	8430436I03Rik; AA607882; AI662710; AW555094
<b>Summary:</b>	Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway (PubMed:25980602). Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis (PubMed:25980602). Binds its own mRNA.[UniProtKB/Swiss-Prot Function]

**Product images:**