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Product datasheet for AR09852PU-N

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

Product data:

Product Type:	Recombinant Proteins
Description:	DHFR / DHFRP1 (1-187, His-tag) mouse recombinant protein, 0.1 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MVRPLNCIVA VSQNMGIGKN GDLPWPPLRN EFKYFQRMTT TSSVEGKQNL VIMGRKTWFS IPEKNRPLKD RINIVLSREL KEPPRGAHFL AKSLDDALRL IEQPELASKV DMVWIVGGSS VYQEAMNQPG HLRLFVTRIM QEFESDTFFP EIDLGKYKLL 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– dihydrofloate and beta - NADPH to 5,6,7,8 - tetrahydrofloate and beta - NADP per min at pH 6.5 at 25°C **Activity Assay:** 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.
Reconstitution Method:	< 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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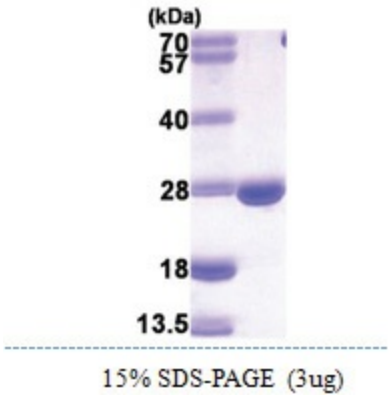
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_034179
Locus ID:	13361
UniProt ID:	P00375, Q544T5
Cytogenetics:	13 47.64 cM
Synonyms:	8430436I03Rik; AA607882; AI662710; AW555094
Summary:	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:



15% SDS-PAGE (3ug)