

Product datasheet

Recombinant human Dihydrofolate reductase (DHFR) protein ab167972

[1 Image](#)

Description

Product name	Recombinant human Dihydrofolate reductase (DHFR) protein
Biological activity	Specific activity is 1.5 - 2.5 units/ml and was obtained by measuring the oxidation of NADPH in absorbance at 340 nm during reaction. One unit will convert 1.0 µmole of 7, 8 dihydrofolate and beta-NADPH to 5, 6, 7, 8-tetrahydrofolate and beta-NADP per minute at pH 6.5 at 25°C.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>P00374</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHSSGLVPRGSHMVGSLNCIVAVSQNMGIGK NGDLPWPPLRN EFRYFQRMTTSSVEGKQNLVIMGKKTWFSIPEKNRPLKG RINLVLSREL KEPPQGAHFLSRSLDDALKLTEQPELANKVDMVWVGGS SVYKEAMNHPG HLKLFVTRIMQDFESDTFFPEIDLEKYKLLPEYPGVLSDVQ EEKGIKYKF EVYEKND
Predicted molecular weight	24 kDa
Amino acids	1 to 187
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab167972** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Functional Studies

Form	Liquid
Additional notes	This product is manufactured by BioVision, an Abcam company and was previously called 6382 Human Recombinant DHFR. 6382-100 is the same size as the 100 µg size of ab167972.

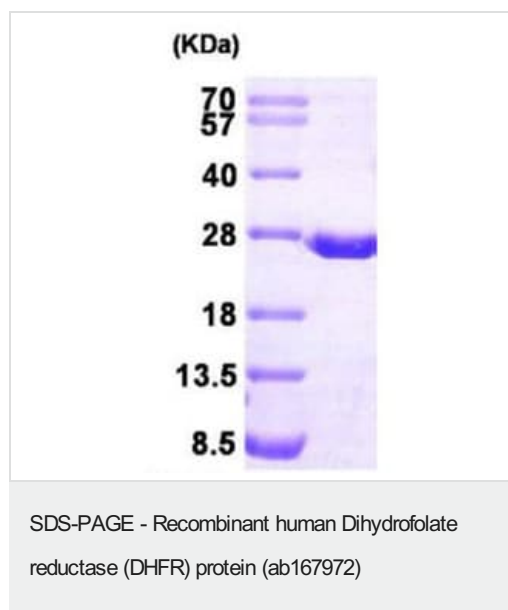
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.03% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.32% Tris HCl, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Key enzyme in folate metabolism. Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis.
Pathway	Cofactor biosynthesis; tetrahydrofolate biosynthesis; 5,6,7,8-tetrahydrofolate from 7,8-dihydrofolate: step 1/1.
Sequence similarities	Belongs to the dihydrofolate reductase family. Contains 1 DHFR (dihydrofolate reductase) domain.

Images



15% SDS PAGE analysis of ab167972 (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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