

Recombinant Human MTHFR Protein (1-656 aa), His-SUMO-tagged

Cat. No. MTHFR-670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTHFR Protein (1-656 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-656 aa
Description	Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine rethylation to methionine.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	90.6 kDa
AA Sequence	MVNEARGNSSLNPCLEGSASSGSESSKDSSRCSTPGLDPERHERLREKMRRRL ESGDKWFSLEFFPPRTAEGAVNLISRFDRMAAGGPLYIDVTWHPAGDPGSDKETSSM MIATAVNYCGLETILHMTCCRQRLEEITGHLHKAKQLGLKNIMALRGDPIGDQWEE EEGGFNAYVDLVKHIRSEFGDYFDICVAGYPKGHPHPEAGSFEADLKLKEKVSAGADF IITQLFFEADTFFRFVKACTDMGITCPIVPGIFPIQGYHSLRQLVKLSKLEVPQEIKDVIE PIKDNDAAIRNYGIELAVSLCQELLASGLVPGHLFYTLNREMATTEVLKRLGMWTEDP RRPLPWALSAHPKRREEDVRPIFWASRPKSYIYRTQEWDEFPNGRWGNSSSPAFG

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ELKDYYLFYLKSKSPKEELLKMWGEELTSEESVFEVFLYLSGEPNRRNGHKVTCLP
 WNDEPLAAETSLLEKEELLRVNRQGILTINSQPNINGKPSSDPVWGWPSSGGYVFQKA
 YLEFFTSRETAEALLQVLKKYELRVNYHLVNVKGENITNAPELQPNVAVTWGIFPGREII
 QPTVVDPVVSFMMFWKDEAFALWIERWGKLYEEESPSTIIQYIHDNYFLVNLVDNDFFP
 LDNCLWQVVEDTLELLNRPTQNARETEAP

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name MTHFR methylenetetrahydrofolate reductase (NAD(P)H) [Homo sapiens]

Official Symbol MTHFR

Synonyms MTHFR; methylenetetrahydrofolate reductase (NAD(P)H);

Gene ID 4524

mRNA Refseq NM_005957

Protein Refseq NP_005948

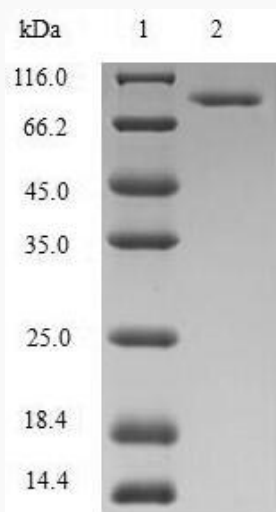
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MIM 607093

UniProt ID P42898



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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