



Recombinant Human Methionine synthase reductase (MTRR)

Product Code	CSB-EP890659HU
Relevance	Involved in the reductive regeneration of cob(I)alamin (vitamin B12) cofactor required for the maintenance of methionine synthase in a functional state. Necessary for utilization of methyl groups from the folate cycle, thereby affecting transgenerational epigenetic inheritance. Folate pathway donates methyl groups necessary for cellular methylation and affects different pathways such as DNA methylation, possibly explaining the transgenerational epigenetic inheritance effects.
Abbreviation	Recombinant Human MTRR protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9UBK8
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MGAASVRAGARLVEVALCSFTVTCLEVMRRFLLLYATQQGQAKAIAEEICEQA VVGFSADLHCISESDKYDLKTETAPLVVVVSTTGTGDPPTARKFVKEIQNQ LPVDFFAHLRYGLLGLGDSEYTYFCNGGKIIDKRLQELGARHFYDTGHADDCV GLELVVEPWIAGLWPALRKHFRSSRGQEEISGALPVASPASSRTDLVKSELLHI ESQVELLRFDDSGRKDSEVLKQNAVNSNQSNVIEDFESSLTRSVPPLSQASL NIPGLPPEYLQVHLQESLGQEEESQVSVTSADPVFQVPISKAVQLTTNDAIKTLL VELDISNTDFSYPGDAFSVICPNSDSEVQSLLQRLQLEDKREHCVLLKIKADT KKKGATLPQHIPAGCSLQFIFTWCLEIRAIPKKAFLRALVDYTSDSAERRLQEL CSKQGAADYSRFVRDACACLLDLLLAFSPSCQPPLSLLLEHLPKLQPRPYSCAS SSLFHPGKLHFVFNIVEFLSTATTEVLRKGVCTGWLALLVASVLQPNHASHED SGKALAPKISISPRTTNSFHLPPDDPSIIMVGPGTGIAPFIGFLQHREKLQEQHP DGNFGAMWLFVFCRHKDRDYLFRELKRLHFLKHGILTHLKVFSRDPVGE EAPAKYVQDNIQLHGQQVARILLQENGHYVCGDAKNMAKDVHDALVQIISKEV GVEKLEAMKTLATLKEEKRYLQDIWS
Research Area	Metabolism
Source	E.coli
Target Names	MTRR
Protein Names	Recommended name: Methionine synthase reductase Short name= MSR EC= 1.16.1.8
Expression Region	1-725aa



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

Tag Info N-terminal GST-tagged

Mol. Weight 107.4kDa

Protein Length Full Length

Image



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

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.