

Recombinant Pongo Abelii MTHFD1 Protein (1-305 aa), His-SUMO-tagged

Cat. No. MTHFD1-1869P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pongo Abelii (Sumatran orangutan) (<i>Pongo pygmaeus abelii</i>) MTHFD1 Protein (1-305 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cell Biology. Protein Description: Partial.
Species	Pongo Abelii
Source	E.coli
ProteinLength	1-305 aa
Description	5,10-methylenetetrahydrofolate + NADP ⁺ = 5,10-methenyltetrahydrofolate + NADPH. 5,10-methenyltetrahydrofolate + H ₂ O = 10-formyltetrahydrofolate. ATP + formate + tetrahydrofolate = ADP + phosphate + 10-formyltetrahydrofolate.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	49.0 kDa
AA Sequence	MAPAEILNGREISAQIRARLKNQVTQLKEQVPGFTPGLAILLVGNRDDSPLYINVKLKA AEEIGIKATHIKLPRTTTESEVIKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIP EKDVDGLTSISAGKLARGDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGSRKIVG APMHDLLLWNNATVTTCHSKTANLDEEVNKGDILVVATGRPEMVKGEWIKPGAIVD CGINYVPDDKKPNGRKVVGDVAYDEAKERASFITPVPGGVGPMTVAMLMQSTVESA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	KRFLEKFKPGKWMI
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 reconstitution instruction is sent along with the products.

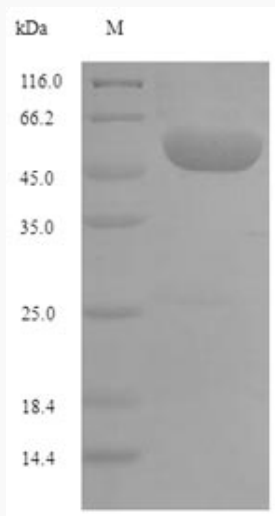
GENE INFORMATION

Gene Name	MTHFD1 methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Pongo abelii (Sumatran orangutan)]
Official Symbol	MTHFD1
Synonyms	MTHFD1; Short name:C1-THF synthase;
Gene ID	100173036
mRNA Refseq	NM_001132611
Protein Refseq	NP_001126083
UniProt ID	Q5R8P0

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

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