

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

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

SPECIFICATION

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|-------------------------|---|
| 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 | MAPAEILNGREISAQIRARLKNQVTQLKEQVPGFTPLGAILLVGNRDDSPLYINVKLKA AEEIGIKATHIKLPRTTTESEVIKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAIP EKDVDGLTSISAGKLARGDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIVG APMHDLLWNATVTTCHSKTANLDEEVNKGDILVVATGRPEMVKGEWIKPGAIVID CGINYVPDDKKPNGRQVVDVAYDEAKERASFITPVPGGVGPMTVAMLMQSTVESA |

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| | |
|----------------------|---|
| | 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. |

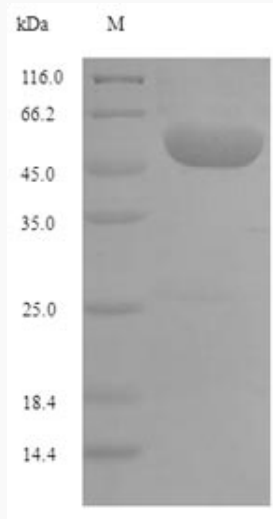
GENE INFORMATION

| | |
|------------------------|--|
| 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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