

Recombinant Human Dihydrofolate reductase(DHFR)

Catalog No: #AP70234

Package Size: #AP70234-1 20ug #AP70234-2 100ug #AP70234-3 1mg

Description

Product Name	Recombinant Human Dihydrofolate reductase(DHFR)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-187aaSequence Info:Full Length
Accession No.	P00374
Calculated MW	37.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	VGSLNCIVAVSQNMIGKNGDLPWPPLRNEFRYFQRM TTTSSVEGKQNLVIMGKKTWFSIPEKNRPLKGRINL VLSRELKEPPQGAHFLSRSLDDALKLTEQPELANKVDMVWIVGGSSVYKEAMNHPGHLKLFVTRIMQDFESDT FFPEIDLEKYKLLPEYPGVLSDVQEEKGIKYKFEVYEKND
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis. Binds its own mRNA and that of DHFRL1.

References

Identification of a de novo thymidylate biosynthesis pathway in mammalian mitochondria.Anderson D.D., Quintero C.M., Stover P.J.Proc. Natl. Acad. Sci. U.S.A. 108:15163-15168(2011)Research Topic:Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.