

Recombinant Escherichia coli Oxygen-insensitive NADPH nitroreductase(nfsA)

Catalog No: #AP71019

Package Size: #AP71019-1 20ug #AP71019-2 100ug #AP71019-3 1mg

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Description

Product Name	Recombinant Escherichia coli Oxygen-insensitive NADPH nitroreductase(nfsA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-240aaSequence Info:Full Length
Other Names	Modulator of drug activity A
Accession No.	P17117
Calculated MW	42.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTPTIELICGHRHSIRHFTDEPISEAQREAIINSARATSSSSFLQCSSIIITDKALREELVTLTGGQKHVAQAAEFW VFCADFNRLHLCIPDAQLGLAEQLLLGVVDTAMMAQNALIAAESLGLGGVYIGGLRNNIEAVTKLLKLPQHVLP LFGCLGWPADNPDLKPRLPASILVHENSYQPLDKGALAQYDEQLAEYYLTRGSNNRRDTSWDHIRRTIIES RPFILDYLHKQGWATR
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

Reduction of nitroaromatic compounds using NADH. Reduces nitrofurazone by a ping-pong bi-bi mechanism possibly to generate a two-electron transfer product. Major component of the oxygen-insensitive nitroreductase activity in E.coli.

References

Structure and site-directed mutagenesis of a flavoprotein from Escherichia coli that reduces nitrocompounds alteration of pyridine nucleotide binding by a single amino acid substitution.Kobori T., Sasaki H., Lee W.C., Zenno S., Saigo K., Murphy M.E., Tanokura M.J. Biol. Chem. 276:2816-2823(2001)Research Topic:Others

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