

# Recombinant human NADPH--cytochrome P450 reductase

Catalog No: #AP71924

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Package Size: #AP71924-1 20ug #AP71924-2 100ug #AP71924-3 1mg

## Description

Product Name	Recombinant human NADPH--cytochrome P450 reductase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-671aaSequence Info:Partial
Accession No.	P16435
Uniprot	P16435
GeneID	5447;
Calculated MW	102.9 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	INMGDSHVDTSSVSEAVAEVSLFSMTDMILFSLIVGLLTYWFLFRKKKEEVEFTKIQTLTSSVRESSFVEKM KKTGRNIIVFYGSQTGTAEFANRLSKDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVFCMATYGECDPT DNAQDFYDWLQETDVLDSGVKFAVFGNGKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDGNLEEDFIT WREQFWLAVCEHFGVEATGEESSIRQYELVVHTDIDAAKVYMGEMGRKLSYENQKPPFDAKNPFLAAVTTNR KLNQGTERHLMHLELDISDSKIRYESGDHVAVYPANDSALVNQLGKILGADLDVMSLNNLDEESNKKHPFPC PTSYRTALTYLDITNPPRTNVLVELAQYASEPSEQELLRKMSSSGEGKELYLSWVVEARRHILAILQDCPSL RPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAVVVEYETKAGRINKGVATNWLRAKEPVGENGGRALVP MFVRKSQFRLPFKATTPVIMVGPVGTGVPFVIFQERAWLRQQGKEVGETLLYYGRRSDEDYLYREELAQFH RDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLIEGGAHYVCGDARNMARDVQNTFYDIVAELGAMEH AQAVDYIKLMTK
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

This enzyme is required for electron transfer from NADP to cytochrome P450 in microsomes. It can also provide electron transfer to he oxygenase and cytochrome B5.

## References

Polymorphism of human CYPOR expression of new allele.Czerwinski M., Sahni M., Madan A., Parkinson A. cDNA cloning and characterization of NADPH-cytochrome P-450 reductase in human HL-60 cell.Murakami H.O., Ogawa H., Nisimoto Y.NIEHS SNPs programThe DNA sequence of human chromosome 7.Hillier L.W., Fulton R.S., Fulton L.A., Graves T.A., Pepin K.H., Wagner-McPherson C., Layman D., Maas J., Jaeger S., Walker R.,

Wylie K., Sekhon M., Becker M.C., O'Laughlin M.D., Schaller M.E., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Cordes M., Du H., Sun H., Edwards J., Bradshaw-Cordum H., Ali J., Andrews S., Isak A., Vanbrunt A., Nguyen C., Du F., Lamar B., Courtney L., Kalicki J., Ozersky P., Bielicki L., Scott K., Holmes A., Harkins R., Harris A., Strong C.M., Hou S., Tomlinson C., Dauphin-Kohlberg S., Kozlowicz-Reilly A., Leonard S., Rohlfing T., Rock S.M., Tin-Wollam A.-M., Abbott A., Minx P., Maupin R., Strowmatt C., Latreille P., Miller N., Johnson D., Murray J., Woessner J.P., Wendl M.C., Yang S.-P., Schultz B.R., Wallis J.W., Spieth J., Bieri T.A., Nelson J.O., Berkowicz N., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Bedell J.A., Mardis E.R., Clifton S.W., Chissoe S.L., Marra M.A., Raymond C., Haugen E., Gillett W., Zhou Y., James R., Phelps K., Iadanoto S., Bubb K., Simms E., Levy R., Clendenning J., Kaul R., Kent W.J., Furey T.S., Baertsch R.A., Brent M.R., Keibler E., Flicek P., Bork P., Suyama M., Bailey J.A., Portnoy M.E., Torrents D., Chinwalla A.T., Gish W.R., Eddy S.R., McPherson J.D., Olson M.V., Eichler E.E., Green E.D., Waterston R.H., Wilson R.K. Nature 424:157-164(2003) Research Topic: Signal Transduction

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Note: This product is for in vitro research use only