

Recombinant Human Cholesterol side-chain cleavage enzyme, mitochondrial(CYP11A1)

Catalog No: #AP70220

Package Size: #AP70220-1 20ug #AP70220-2 100ug #AP70220-3 1mg

Description

Product Name	Recombinant Human Cholesterol side-chain cleavage enzyme, mitochondrial(CYP11A1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:40-521aaSequence Info:Full Length
Other Names	CYPXIA1Cholesterol desmolaseCytochrome P450 11A1Cytochrome P450(scc)
Accession No.	P05108
Calculated MW	72.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	ISTRSPRPFNEIPSPGDNGWLNLYHFWRETGTHKVHLHHVQNFQKYGPIYREKLGNVESVYVIDPEDVALLFK SEGNPERFLIPPWVAYHQYYQRPIGVLLKKSAAWKKDRVALNQEVMapeATKNFLPLLDVSRDFVSVLHRR IKKAGSGNYSGDISDDLFRFAFESITNVIFGERQGMLEEVNPEAQRfidaiYQMFHTSVPMNLPPDLFRLFRT KTWKDHVAAWDVIFSKADIYTQNFYWELRQKGSVHHDYRGILYRLLGDSKMSFEDIKANVTEMLAGGVDTTS MTLQWHLIYEMARNLKVQDMLRAEVLAAARHQAQGDmatMLQLVPLLKASIKETLRHPISVTLQRYLVNDLVLR DYMIPAKTLVQVAIYALGREPTFFFDPENFDPTRWLSKDKNITYFRNLGFGWGVQRCLGRRIAELMTIFLINML ENFRVEIQHLSDVGTTFNLILMPEKPISTFWPFPNQEATQQ
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

Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.

References

Analysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A. , Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley S., She X., Sneddon K.M.B., Stewart S., Sougnez C., Stone S.M., Topham K., Vincent D., Wang S., Zimmer A.R., Birren B.W., Hood L., Lander E.S., Nusbaum C.Nature 440:671-675(2006)Research Topic:Metabolism

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