

Recombinant human Cytochrome P450 4F11

Catalog No: #AP71555



Package Size: #AP71555-1 20ug #AP71555-2 100ug #AP71555-3 1mg

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Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human Cytochrome P450 4F11
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:38-524aaSequence Info:Full Length
Other Names	3-hydroxy fatty acids omega-hydroxylase CYP4F11Curated (EC:1.14.13.-Curated)Cytochrome P450 4F11 ;CYPIVF11
Accession No.	Q9HBI6
Uniprot	Q9HBI6
GeneID	57834;
Calculated MW	72.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	TYTFYDNCRRLLQCFPPKQNWFWGHQGLVTPTEEGMKTLLQLVTTYPPQGFKLWLGPTFPPLLILCHPDIIRPIT SASAAVAPKDMIFYGFLKPWLGDLLSGGDKWSRHRRLTPAFHFNILKPYMKIFNKSVMIMHDKWQRLASE GSARLDMFEHISLMTLDSLQKCVFSFESNCQEKPEYIAAILELSAFVEKRNQQILLHTDFLYLTPDGQRFRRRA CHLVHDFDVAIQERRCTLPTQGIDDFLKNKAKSKTLDFIDVLLSKDEDGKELSDIEDIRAEADTFMFEGHDTTA SGLSWVLYHLAKHPEYQEQRQEVQELLKDREPIEIEWDDLAQLPFLTMCIKESLRLHPPVVISRCCTQDFVL PDGRVIPKGIVCLINIIHYNPTVWPDPEVYDPFRFDQENIKERSPLAFIPFSAGPRNCIGQAFAMAEMKVVLAL TLLHFRILPTHTEPRRKPELILRAEGGLWLRVEPLGANSQ
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

Omega-hydroxylase that oxidizes a variety of structurally unrelated compounds, including fatty acids and xenobiotics. Plays a key role in vitamin K catabolism by mediating omega-hydroxylation of vitamin K1 (phyloquinone), and menaquinone-4 (MK-4), a form of vitamin K2. Hydroxylation of phyloquinone and MK-4 probably regulates blood coagulation . Catalyzes omega-hydroxylation of 3-hydroxy fatty acids, such as 3-hydroxypalmitate, 3-hydroxyoleate, 3-hydroxyarachidonate, and 3-hydroxystearate . Oxidizes drugs such as erythromycin, benzphetamine, ethylmorphine, chlorpromazine and imipramine .

References

The DNA sequence and biology of human chromosome 19.Grimwood J., Gordon L.A., Olsen A.S., Terry A., Schmutz J., Lamerdin J.E., Hellsten U., Goodstein D., Couronne O., Tran-Gyamfi M., Aerts A., Altherr M., Ashworth L., Bajorek E., Black S., Branscomb E., Caenepeel S., Carrano A.V. , Caoile C., Chan Y.M., Christensen M., Cleland C.A., Copeland A., Dalin E., Dehal P., Denys M., Detter J.C., Escobar J., Flowers D., Fotopulos D.,

Garcia C., Georgescu A.M., Glavina T., Gomez M., Gonzales E., Groza M., Hammon N., Hawkins T., Haydu L., Ho I., Huang W., Israni S., Jett J., Kadner K., Kimball H., Kobayashi A., Larionov V., Leem S.-H., Lopez F., Lou Y., Lowry S., Malfatti S., Martinez D., McCready P.M., Medina C., Morgan J., Nelson K., Nolan M., Ovcharenko I., Pitluck S., Pollard M., Popkie A.P., Predki P., Quan G., Ramirez L., Rash S., Retterer J., Rodriguez A., Rogers S., Salamov A., Salazar A., She X., Smith D., Slezak T., Solovyev V., Thayer N., Tice H., Tsai M., Ustaszewska A., Vo N., Wagner M., Wheeler J., Wu K., Xie G., Yang J., Dubchak I., Furey T.S., DeJong P., Dickson M., Gordon D., Eichler E.E., Pennacchio L.A., Richardson P., Stubbs L., Rokhsar D.S., Myers R.M., Rubin E.M., Lucas S.M. Nature 428:529-535(2004) Research Topic: Cardiovascular

Note: This product is for in vitro research use only