Proteins



Product Data Sheet

ABCD3 Protein, Human (Cell-Free, His)

Cat. No.: HY-P702197

Synonyms: ATP-binding cassette sub-family D member 3; 70 kDa peroxisomal membrane protein; PMP70

Species:

Source: E. coli Cell-free Accession: P28288 (M1-S659)

Gene ID: 5825 Molecular Weight: 81.5 kDa

PROPERTIES

AA Sequence	MAAFSKYLTA RNSSLAGAAF LLLCLLHKRR RALGLHGKKS GKPPLQNNEK EGKKERAVVD KVFFSRLIQI LKIMVPRTFC KETGYLVLIA VMLVSRTYCD VWMIQNGTLI ESGIIGRSRK DFKRYLLNFI AAMPLISLVN NFLKYGLNEL KLCFRVRLTK YLYEEYLQAF TYYKMGNLDN RIANPDQLLT QDVEKFCNSV VDLYSNLSKP FLDIVLYIFK LTSAIGAQGP ASMMAYLVVS GLFLTRLRRP IGKMTITEQK YEGEYRYVNS RLITNSEEIA FYNGNKREKQ TVHSVFRKLV EHLHNFILFR FSMGFIDSII AKYLATVVGY LVVSRPFLDL SHPRHLKSTH SELLEDYYQS GRMLLRMSQA LGRIVLAGRE MTRLAGFTAR ITELMQVLKD LNHGKYERTM VSQQEKGIEG VQVIPLIPGA GEIIIADNII KFDHVPLATP NGDVLIRDLN FEVRSGANVL ICGPNGCGKS SLFRVLGELW PLFGGRLTKP ERGKLFYVPQ RPYMTLGTLR DQVIYPDGRE DQKRKGISDL VLKEYLDNVQ LGHILEREGG WDSVQDWMDV LSGGEKQRMA MARLFYHKPQ FAILDECTSA VSVDVEGYIY SHCRKVGITL FTVSHRKSLW KHHEYYLHMD
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Page 1 of 2 www. Med Chem Express. com Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

ABCD3, a member of the ATP-binding cassette (ABC) family, serves as a versatile ATP-dependent transporter with broad substrate specificity, facilitating the transport of various metabolites, including long-chain fatty acids (LCFA)-CoA, dicarboxylic acids-CoA, long-branched-chain fatty acids-CoA, and bile acids from the cytosol to the peroxisome lumen for beta-oxidation. This transporter exhibits fatty acyl-CoA thioesterase and ATPase activities, likely contributing to the hydrolysis of fatty acyl-CoAs into free fatty acids before their ATP-dependent transport into peroxisomes. ABCD3's pivotal role in these processes highlights its significance in the regulation of LCFAs and energy metabolism, specifically in the degradation and biosynthesis of fatty acids through beta-oxidation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA