



Recombinant Protein Technical Manual

Recombinant Human CROT Protein (474 Leu/Val, His Tag)
RPES4320

Product Data:

Product SKU: RPES4320

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q9UKG9

Protein Information:

Molecular Mass: 71.5 kDa

AP Molecular Mass: 65 kDa

Tag: C-His

Bio-activity:

Purity: > 93 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 10% glycerol

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: COT

Immunogen Information:

Sequence: Met 1-Leu 612, 474 Leu/Val

Background:

Carnitine octanoyltransferase (CROT or COT), also known as octanoyl-CoA: L-carnitine O-octanoyltransferase, medium-chain/long-chain carnitine acyltransferase, and carnitine medium-chain acyltransferase, is a carnitine acyltransferase belonging to the family of transferases, specifically those acyltransferases transferring groups other than aminoacyl groups that catalyzes the reversible transfer of fatty acyl groups between CoA and carnitine. Carnitine octanoyltransferase (CROT or COT) facilitate the transport of medium- and long-chain fatty acids through the peroxisomal and mitochondrial membranes. It is physiologically inhibited by malonyl-CoA. COT also has functions in efficiently converting one of the end products of the peroxisomal beta-oxidation of pristanic acid, 4, 8-dimethylnonanoyl-CoA, to its corresponding carnitine ester.