Roar

Product Information

Recombinant Cholesteryl Ester Transfer Protein (CETP)

Catalog No. R8899

Description:	Active, human recombinant CETP, partially purified
Source:	CHO cells overexpressing the full-length human protein
Unit Size:	200 µl
Activity/Concentration:	– Approximately 30 times as active as normal human plasma – CETP concentration estimated by activity: 60 µg/ml – Stabilized with bovine serum albumin, Total protein concentration = 759 µg/ml (Coomassie Protein Assay – Pierce)
Storage and Handling:	Store at -80° C. Avoid freeze-thaw cycles. Wear appropriate gloves, protective clothing and eyewear. Follow safe laboratory practices.

Overview

Cholesteryl ester transfer protein (CETP) is present in normal human plasma. The protein transfers neutral lipids from high density lipoproteins (HDL) to very low density lipoprotein (VLDL) and low density lipoprotein (LDL). CETP plays an important role in lipoprotein metabolism and influences the reverse cholesterol transport pathway.

Recombinant CETP (R8899) is partially purified from CHO cells overexpressing the full-length human protein. This recombinant protein is active, and is useful as a source of CETP for mass or activity assays, high-throughput screening, or for performing structure-activity relationship (SAR) studies on inhibitor compounds.

R8899 Cited References

1. Venancio TM, Machado RM, Castoldi A, et al. CETP lowers TLR4 expression which attenuates the inflammatory response induced by LPS and polymicrobial sepsis. *Mediators Inflamm*. **2016**;2016. 10.1155/2016/1784014.
2. Pollard RD, Blesso CN, Zabalawi M, et al. Procollagen C-endopeptidase enhancer protein 2 (PCPE2) reduces atherosclerosis in mice by enhancing scavenger receptor class B1 (SR-BI)-mediated high-density lipoprotein (HDL)-cholesteryl ester uptake. *J Biol Chem*. **2015**;290(25):15496-15511.
3. Jahangiri A, de Beer MC, Noffsinger V, et al. HDL remodeling during the acute phase response. *Arterioscler Thromb Vasc Biol*. **2009**;29(2):261-267. 10.1161/ATVBAHA.108.178681.
4. Tory R, Sachs-Barrable K, Hill JS, Wasan KM. Cyclosporine A and rapamycin induce in vitro cholesteryl ester transfer protein activity, and suppress lipoprotein lipase activity in human plasma. *Int J Pharm*. **2008**;358(1-2):219-223.
5. Deguchi H, Fernandez JA, Griffin JH. Plasma cholesteryl ester transfer protein and blood coagulability. *Thromb Haemost*. **2007**;98(6):1160-1164.
6. Okamoto H, Miyai A, Sasase T, et al. Cholesteryl ester transfer protein promotes the formation of cholesterol-rich remnant like lipoprotein particles in human plasma. *Clin Chim Acta*. **2007**;375(1-2):92-98.
7. Gauthier A, Lau P, Zha X, Milne R, McPherson R. Cholesteryl ester transfer protein directly mediates selective uptake of high density lipoprotein cholesteryl esters by the liver. *Arterioscler Thromb Vasc Biol*. **2005**;25(10):2177-2184.
8. Parathath S, Sahoo D, Darlington YF, et al. Glycine 420 near the C-terminal transmembrane domain of SR-BI is critical for proper delivery and metabolism of high density lipoprotein cholesteryl ester. *J Biol Chem*. **2004**;279(24):24976-24985.
9. Vassiliou G, McPherson R. Role of cholesteryl ester transfer protein in selective uptake of high density lipoprotein cholesteryl esters by adipocytes. *J Lipid Res*. **2004**;45(9):1683-1693.
10. Connelly MA, De La Llera-Moya M, Peng Y, Drazul-Schrader D, Rothblat GH, Williams DL. Separation of lipid transport functions by mutations in the extracellular domain of scavenger receptor class B, type I. *J Biol Chem*. **2003**;278(28):25773-25782.

Related Products

RB-CETP Roar CETP Activity Assay Kit
RB-EVAK Roar Ex Vivo CETP Activity Assay Kit
RB-RPAK Roar CETP RP Activity Assay Kit

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