

Resource Summary Report

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pcDNA3.1(-)-LZ-CD95L

RRID:Addgene_104349

Type: Plasmid

Proper Citation

RRID:Addgene_104349

Plasmid Information

URL: <http://www.addgene.org/104349>

Proper Citation: RRID:Addgene_104349

Insert Name: CD95L leucine zipper

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32706785](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1(-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Synthetic DNA encoding a fusion of an improved IL2 signal sequence (Zhang et al. 2005 & Naito et al. 2013), an octahistidine-tagged-leucine zipper motif, a flexible 17aa linker (Naito et al. 2013) and the death inducing, c-terminal extracellular domain (aa137-208) of CD95L. The cloning strategy omits the proteolytically-susceptible extracellular stalk region (aa102-136), but includes the extracellular self-assembly domain (aa137-183; Orlinick et al. 1997). NTA column purified LZ-CD95L produced in expi393 cells is highly active (IC50 Jurkat E6-1 cells 50ng/ml). Human CD95L is also active in inducing cell death in murine thymocytes (McLellan et al. 2000). Note, during following transient transfection, rising levels of LZ-CD95L in the culture supernatant induce cell death in HEK293FT and expi293. Users could explore co-transfection of this vector with a c-FLIP-encoding vector, select CD95L resistant HEK293 variants, or use other CD95L-resistant mammalian cell lines to maximise LZ-CD95L yields. References: McLellan AD, Terbeck G, Mengling T, Starling GC, Kiener PA, Gold R, Bröcker EB, Leverkus M, Kämpgen E. Differential susceptibility to CD95 (Apo-1/Fas) and MHC class II-induced apoptosis during murine dendritic cell development. Cell Death Differ. 2000 Oct;7(10):933-8. Naito M, Hainz U, Burkhardt UE, Fu B, Aho D, Stevenson KE, Rajasagi M, Zhu B, Alonso A, Witten E, Matsuoka K, Neuberger D, Duke-Cohan JS, Wu CJ, and Freeman GJ.

CD40L-Tri, a novel formulation of recombinant human CD40L that effectively activates B cells. Cancer Immunol Immunother 2013; 62:347-357. Orlinick JR, Elkon KB, and Chao MV. Separate domains of the human fas ligand dictate self-association and receptor binding. J Biol Chem 1997; 272:32221-32229. Zhang L, Leng Q, and Mixson AJ. Alteration in the IL-2 signal peptide affects secretion of proteins in vitro and in vivo. The Journal of Gene Medicine 2005; 7:354-365.

Plasmid Name: pcDNA3.1(-)-LZ-CD95L

Record Creation Time: 20220422T221506+0000

Record Last Update: 20260725T073406+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1(-)-LZ-CD95L.

No alerts have been found for pcDNA3.1(-)-LZ-CD95L.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.