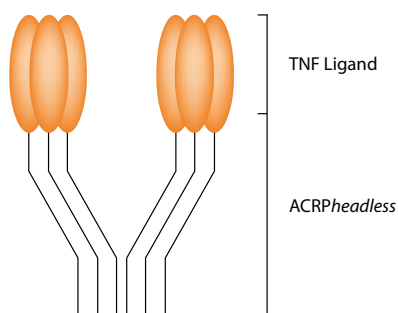


Multimeric
replaces **Mega!**



AdipoGen[®]
Multimeric Proteins
Higher Activity – Lower Endotoxin

AdipoGen[®] Multimeric Proteins are high activity constructs in which two trimeric TNFSF ligands are linked via the oligomeric collagen domain of ACRP30 [ACRP30^{headless}] and therefore mimic the membrane-bound forms of the proteins.



Endogenous TNF superfamily ligands are either active as membrane-form (e.g. FasL, TRAIL, CD40L, OX40L) or are secreted and activated through oligomerization by the binding of proteoglycans at the surface of cells (e.g. APRIL).

The oligomerization is triggered

- by fusing the TNF superfamily ligands to the the collagen domain of the protein ACRP30 (which itself has no functional activity) to form a hexameric structure and therefore creating “Multimeric Proteins”; or
- by adding a cross-linking antibody called “TNF Ligands Enhancer” (Prod. No. AG-35B-0001).

BULK available

Multimeric FasL[™] [MegaFasL[™]]

FasL (human) (multimeric) (rec.)

AG-40B-0130-C010		10 µg
AG-40B-0130-3010	MultiPack	3 x 10 µg

MultimericFasL[™] very effectively simulates the natural membrane-assisted aggregation of FasL *in vivo*.

Source: HEK 293 cells.

Sequence: Human FasL (aa 139-281) is fused at the N-terminus to mouse ACRP30^{headless} (aa 18-111) and a FLAG[®]-tag.

Specificity: Binds to human and mouse Fas.

Biological Activity: Induces apoptosis of human Jurkat T cells at a concentration of <1ng/ml.

Endotoxin Content: <0.02EU/µg purified protein (LAL test; Lonza).

LITERATURE REFERENCES: Two adjacent trimeric Fas ligands are required for Fas signaling and formation of a death-inducing signaling complex: N. Holler, et al.; Mol. Cell. Biol. **23**, 1428 (2003) • A Fas agonist induces high levels of apoptosis in haematological malignancies: P. Greaney, et al.; Leuk. Res. **30**, 415 (2006)

See Backcover for more products!

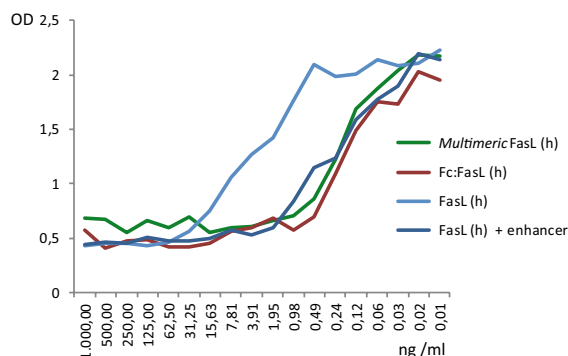


FIGURE: Oligomerisation of FasL (human) efficiently triggers Jurkat cell death.

METHOD: Jurkat cells were treated O/N with the indicated concentrations of FasL (human) (multimeric) (rec.) (AG-40B-0130), Fc (human):FasL (human) (rec.) (AG-40B-0132), FasL (human) (rec.) (AG-40B-0001) or FasL (human) (rec.) + Enhancer (AG-44B-0001) (2 fold-dilutions, first concentration of 1000ng/ml). Cell death was quantified using PMS/MTS. The oligomeric FasL recombinant proteins (FasL (human) (multimeric), Fc (human):FasL (human) and FasL (human) + Enhancer) kill Jurkat cells at IC₅₀ <0.2ng/ml.

The Largest Panel of Ultrapotent MultimericLigands[™]!
Equivalent to **MegaLigands** – www.megaligands.com

- **MultiPacks** for additional big savings!
- **Bulk Quantities** for *in vivo* cancer immunotherapy and vaccination studies in mice!

Multimeric CD40L™

BULK available

CD40L (human) (multimeric) (rec.)

AG-40B-0010-C010 10 µg
 AG-40B-0010-3010 MultiPack 3 x 10 µg

- *MultimericCD40L™* very effectively mimics the natural membrane-assisted aggregation of CD40L. It is the most potent alternative to activate CD40. No enhancer is required.
- *MultimericCD40L™* is a potent B cell activator.

LITERATURE REFERENCE:

IgG subclass switch capacity is low in switched and in IgM-only, but high in IgD+IgM+, post-germinal center (CD27+) human B cells: C. Werner-Favre, et al.; Eur. J. Immunol. 31, 243 (2001)

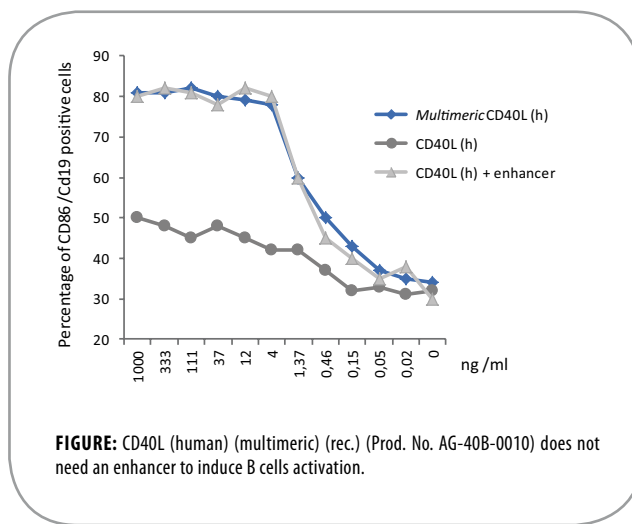


FIGURE: CD40L (human) (multimeric) (rec.) (Prod. No. AG-40B-0010) does not need an enhancer to induce B cells activation.

CD40L (mouse) (multimeric) (rec.)
Bulk available for in vivo studies!

AG-40B-0020-C010 10 µg
 AG-40B-0020-3010 MultiPack 3 x 10 µg

CD40L (rat) (multimeric) (rec.)
Bulk available for in vivo studies!

AG-40B-0107-C010 10 µg
 AG-40B-0107-3010 MultiPack 3 x 10 µg

FULL PANEL OF Multimeric Ligands™

APRIL (human) (multimeric) (rec.)

AG-40B-0017-C010 10 µg
 AG-40B-0017-3010 MultiPack 3 x 10 µg

APRIL (human) (H98) (multimeric) (rec.)

AG-40B-0088-C010 10 µg
 AG-40B-0088-3010 MultiPack 3 x 10 µg

APRIL (mouse) (multimeric) (rec.)

AG-40B-0089-C010 10 µg
 AG-40B-0089-3010 MultiPack 3 x 10 µg

APRIL (mouse) (H98) (multimeric) (rec.)

AG-40B-0035-C010 10 µg
 AG-40B-0035-3010 MultiPack 3 x 10 µg

OX40L (mouse) (multimeric) (rec.)

AG-40B-0029-C010 10 µg

TNF-α (human) (multimeric) (rec.)
Activates TNF-R1 and TNF-R2!

AG-40B-0019-C010 10 µg

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