TNF Ligands 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 [ACRP30headless] 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).

To mimic endogenous TNF ligands activity, the oligomerization of recombinant TNF ligands can be triggered:

- by fusing the TNF superfamily ligands, soluble form, to 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).

**FasL (human) (multimeric) (rec.)**
AG-40B-0130 10 µg | 3 x 10 µg

**MultimericFasL™ [MegaFasL™]**

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 ACRP30headless (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:** <0.01 EU/µg purified protein (LAL test; Lonza).


**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.

See Backcover for more Products!
**Multimeric CD40L™**

**CD40L (human) (multimeric) (rec.)**
AG-40B-0010-C010  
10 µg | 3 x 10 µg

- *Multimeric CD40L™* very effectively mimics the natural membrane-assisted aggregation of CD40L. It is the most potent alternative to activate CD40. **No enhancer is required.**
- *Multimeric CD40L™* 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)

**CD40L (mouse) (multimeric) (rec.)**
AG-40B-0020  10 µg | 3 x 10 µg

**CD40L (rat) (multimeric) (rec.)**
AG-40B-0107  10 µg | 3 x 10 µg

*Bulk available for in vivo studies!*

**Full Panel of Multimeric Ligands™**

**APRIL (human) (multimeric) (rec.)**
AG-40B-0017  10 µg | 3 x 10 µg

**APRIL (human) (H98) (multimeric) (rec.)**
AG-40B-0088  10 µg | 3 x 10 µg

*Same activity as AG-40B-0017. Does not bind proteoglycans.*

**APRIL (mouse) (multimeric) (rec.)**
AG-40B-0089  10 µg | 3 x 10 µg

**APRIL (mouse) (H98) (multimeric) (rec.)**
AG-40B-0035  10 µg | 3 x 10 µg

*Same activity as AG-40B-0089. Does not bind proteoglycans.*

**OX40L (mouse) (multimeric) (rec.)**
AG-40B-0029  10 µg

**TNF-α (human) (multimeric) (rec.)**
AG-40B-0019  10 µg | 3 x 10 µg

*Activates TNF-R1 and TNF-R2!*

**TNF-α (mouse) (multimeric) (rec.)**
AG-40B-0021  10 µg | 3 x 10 µg

*Activates TNF-R1 and TNF-R2!*

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**Small Molecules**

**ELISA Kits**

**Antibodies**

**Proteins**

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