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).

The oligomerization is triggered
• by fusing the TNF superfamily ligands 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).

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


**See Backcover for more products!**
**MultiPacks** for additional big savings!  
**Bulk Quantities** for *in vivo* cancer immunotherapy and vaccination studies in mice!

## Multimeric CD40L™

### CD40L (human) (multimeric) (rec.)
- **AG-40B-0010-C010** 10 µg
- **AG-40B-0010-3010** MultiPack 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)

**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

<table>
<thead>
<tr>
<th>CD40L (mouse) (multimeric) (rec.)</th>
<th>AG-40B-0020-C010</th>
<th>10 µg</th>
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</thead>
<tbody>
<tr>
<td>Bulk available for <em>in vivo</em> studies!</td>
<td>AG-40B-0020-3010</td>
<td>MultiPack 3 x 10 µg</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>CD40L (rat) (multimeric) (rec.)</th>
<th>AG-40B-0107-C010</th>
<th>10 µg</th>
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</thead>
<tbody>
<tr>
<td>Bulk available for <em>in vivo</em> studies!</td>
<td>AG-40B-0107-3010</td>
<td>MultiPack 3 x 10 µg</td>
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</tbody>
</table>

## FULL PANEL OF Multimeric Ligands™

### APRIL (human) (multimeric) (rec.)
- **AG-40B-0017-C010** 10 µg
- **AG-40B-0017-3010** MultiPack 3 x 10 µg

<table>
<thead>
<tr>
<th>APRIL (human) (multimeric) (rec.)</th>
<th>AG-40B-0017-C010</th>
<th>10 µg</th>
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<tr>
<td></td>
<td>AG-40B-0017-3010</td>
<td>MultiPack 3 x 10 µg</td>
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### APRIL (human) (H98) (multimeric) (rec.)
- **AG-40B-0088-C010** 10 µg
- **AG-40B-0088-3010** MultiPack 3 x 10 µg

<table>
<thead>
<tr>
<th>APRIL (human) (H98) (multimeric) (rec.)</th>
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<tr>
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<td>AG-40B-0088-3010</td>
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### APRIL (mouse) (multimeric) (rec.)
- **AG-40B-0089-C010** 10 µg
- **AG-40B-0089-3010** MultiPack 3 x 10 µg

<table>
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<tr>
<td></td>
<td>AG-40B-0089-3010</td>
<td>MultiPack 3 x 10 µg</td>
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</tbody>
</table>

### APRIL (mouse) (H98) (multimeric) (rec.)
- **AG-40B-0035-C010** 10 µg
- **AG-40B-0035-3010** MultiPack 3 x 10 µg

<table>
<thead>
<tr>
<th>APRIL (mouse) (H98) (multimeric) (rec.)</th>
<th>AG-40B-0035-C010</th>
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<tbody>
<tr>
<td></td>
<td>AG-40B-0035-3010</td>
<td>MultiPack 3 x 10 µg</td>
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</tbody>
</table>

### CD40L (mouse) (multimeric) (rec.)
- **bulk available**
- **AG-40B-0029-C010** 10 µg

<table>
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<tr>
<th>CD40L (mouse) (multimeric) (rec.)</th>
<th>AG-40B-0029-C010</th>
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### OX40L (mouse) (multimeric) (rec.)
- **AG-40B-0019-C010** 10 µg

<table>
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<th>OX40L (mouse) (multimeric) (rec.)</th>
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### TNF-α (human) (multimeric) (rec.)
- **Activates TNF-R1 and TNF-R2!**
- **AG-40B-0019-C010** 10 µg

<table>
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<tr>
<th>TNF-α (human) (multimeric) (rec.)</th>
<th>AG-40B-0019-C010</th>
<th>10 µg</th>
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**AdipoGen**
Connecting Immunology to Metabolism™

www.adipogen.com

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