



Certificate of Analysis

RANKL/TNFSF11 Protein, Human (HEK293)

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|-------------------|-------------------------|
| Cat. No.: | HY-P73386 |
| Batch No.: | 127605 |
| Species: | Human |
| Source: | HEK293 |
| Tag: | Tag Free |
| Accession: | AAC51762.1 (G64-D245) |
| Gene ID: | 8600 |
| Molecular Weight: | Approximately 28.81 kDa |

ANALYTICAL DATA

| TEST | Specifications | Results |
|---------------------|--|---|
| Purity | Greater than 90% as determined by reducing SDS-PAGE | 92.40% |
| Endotoxin Level | <1 EU/μg, determined by LAL method. | PASS |
| Biological Activity | 1. Immobilized human TNFSF11 at 2 μg/mL (100 μL/well) can bind human Osteoprotegerin-hFc and the EC ₅₀ is 5-40 ng/mL. 2. Measured by its ability to induce TRAP activity, inducing osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED ₅₀ for this effect is 1.5-19.69 ng/mL, corresponding to a specific activity is > 5.079×10 ⁴ units/mg. | Pass (Test by method 1) 2.7 ng/mL (Test by method 2) |
| Appearance | Lyophilized powder. | |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). | |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. | |
| Shipping | Room temperature in continental US; may vary elsewhere. | |

Caution: Product has not been fully validated for medical applications. For research use only.

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