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## Product Datasheet

### Human IL1 alpha protein, His tag (active), Unconjugated GTX00067-PRO

|                            |   |
|----------------------------|---|
| Article Name               | Human IL1 alpha protein, His tag (active), Unconjugated   |
| Biozol Catalog Number      | GTX00067-PRO  |
| Supplier Catalog Number    | GTX00067-pro  |
| Alternative Catalog Number | GTX00067-PRO-10   |
| Manufacturer               | GeneTex   |
| Category                   | Proteine/Peptide  |
| Application                | FA  |
| Species Reactivity         | Human   |
| Conjugation                | Unconjugated  |
| NCBI                       | <a href="#">3552</a>  |
| UniProt                    | <a href="#">Q53QF9</a>  |
| Buffer                     | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System          | E. coli   |
| Form                       | Lyophilized powder  |
| Sequence                   | N-terminal His-Tag, Ser113~Ala271 (NP_000566.3)   |

## Application Notes

IL1alpha (Interleukin-1 alpha) is a member of the interleukin 1 cytokine family. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces cell apoptosis. It is reported that exposure of MCF-7 cells to certain concentration of IL1alpha results in inhibition of cell growth. Thus, an cell proliferation assay of MCF-7 was conducted with the addition of IL1alpha. MCF-7 cells were seeded overnight at a density of 5000 cells/well, and then treated with or without various concentrations of IL1alpha for 72h, then cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours in at 37C. Inhibition of MCF-7 cell proliferation after incubation with IL1alpha for 72h observed by inverted microscope.