

# NEUTRAKINE™ BETA NGF ANTIBODY (69009-1-IG)

## Protocol for datasheet validation experiment

The bioassay for Beta NGF (HZ-1222) is performed as a measure of the induction of dose-dependent proliferation in TF-1 cells (ATCC® CRL-2003™). Pre-incubation with the neutralizing beta NGF antibody (69009-1-Ig) inhibits the Beta-NGF dependent induction of proliferation in TF-1 as measured by Promega CellTiter96® Non-Aqueous assay (G5421).

1. Reconstitute antibody according to datasheet and prepare a 4x starting concentration of 69009-1-Ig (see table below). Following the Standard Plate Map, perform serial dilution of NeutraKine antibody in the 96 well assay plate from column 3-12 in assay media for a final volume of 50  $\mu$ L. Columns 1 and 2 are to be used as cell only and cytokine only controls, respectively.
2. Add 100  $\mu$ L of assay media to column 1 and add 50  $\mu$ L of the indicated concentration of Beta NGF (see table below) to columns 2-12 in assay media. Add an additional 50  $\mu$ L of assay media to column 2.
3. Incubate the plate at 37°C for approximately 2 hours in 5% CO<sub>2</sub> humidified incubator.

4. At the end of two hours prepare cell suspension of TF-1 cells (ATCC® CRL-2003™) at  $2 \times 10^5$  cells/mL and add 100  $\mu$ L of prepared cell suspension to all wells in assay plate.
5. Incubate the cells for 72 hours at 37°C in 5% CO<sub>2</sub> humidified incubator.
6. Following completion of the 72 hours incubation measure the cell viability using Promega CellTiter96® Non-Aqueous (G5421).
7. Graph the activity using analytical/ statistical software (such as GraphPad Prism) to obtain 50% neutralization dose (ND50).

### Standard Plate Map

	1	2	3	4	5	6	7	8	9	10	11	12
A	Cell Only Control	Cytokine Only Control	Neutrakine Antibody+ Cytokine									
B			Neutrakine Antibody+ Cytokine									
C			Neutrakine Antibody+ Cytokine									
D			Neutrakine Antibody+ Cytokine									
E			Neutrakine Antibody+ Cytokine									
F			Neutrakine Antibody+ Cytokine									
G			External Standard for Comparison - Control									
H			External Standard for Comparison - Control									

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## NeutraKine and cytokine recommended concentrations

Target	NeutraKine Cat No.	4X Starting Concentration (ng/mL)	Recommended Cytokine Concentration (ng/mL)
IL-6	69001-1-Ig	200	1
IL-3	69004-1-Ig	1000	0.5
IFN gamma	69007-1-Ig	5000	0.4
IFN alpha 2A	69008-1-Ig	10000	100
TNF alpha	69002-1-Ig	100	5
GM-CSF	69003-1-Ig	200	0.2
IL-23 P40	69006-1-Ig	1000	4
IL-4	69005-1-Ig	10,000	0.4
Beta NGF	69009-1-Ig	250	2