

Reference brochure

Nanokines™

A new standard in cytokine stability



Nanokines™

Cytokines at the nanogram level

Nanokines™ are nanogram sized cytokine product lyophilizate, ranging from 50-1000ng quantities. Nanokines™ are a new class of cytokine products designated for ease of product manipulation, product shelf life and product stability.

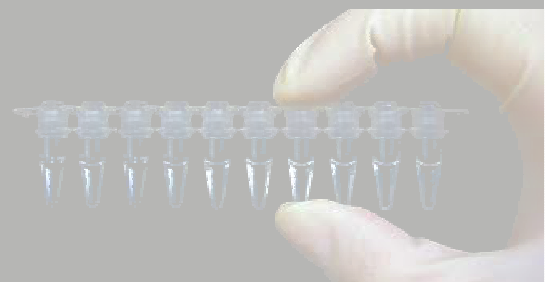
Whether you are using your cytokine as an ELISA standard or as a functional protein in activation assays, Nanokines™ offer a novel solution that minimizes product manipulation prior to usage, product contamination or denaturation and reduces unnecessary product consumption.

Principle of use

Nanokines™ arrive as a compact microvial strip. Each microvial contains a minute lyophilized quantity of cytokine product. The Nanokines™ strip relieves you of the uncertainties involved with reusing old stocks, relieves the need to thaw and refreeze stocks or add additional stabilizers and carrier proteins.

Nanokines™ series

Product	Size	Catalogue No
Human FLT3L	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human GMCSF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human IL-3	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human IL-4	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human IL-6	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human SCF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human IL-1a	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human IL-1b	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human TGF-b1	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human LIF	12x1000ng	RKP49772B
	20x50ng	RKP49772E



Currently, nanokines™ arrive in 2 sizes. The 1000ng size is aimed at researchers using the product in activation assays. The minute 50ng quantity offers an excellent solution for those researchers planning to use the cytokine as an ELISA standard. After tearing-off a single microvial, extraction of product is done by reconstituting the pellet and pipetting out to your working suspension. The remaining sealed microvials can be stored back in your freezer.

Why Nanokines™?

OVERCOMING FREEZING/THAWING

Thawing and refreezing a cytokine stock solution has been known to have detrimental effects on cytokine stability. Denaturation of cytokines is a known problem for cytokine users, mainly a result of thawing/refreezing and poor/unstable storage conditions.

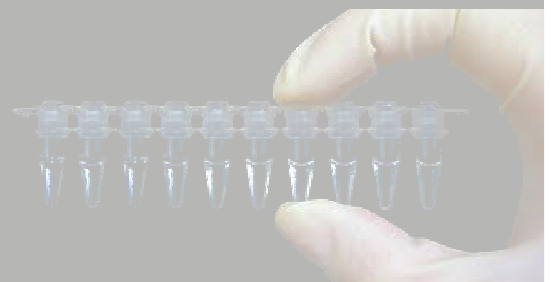
Nanokines™ maintain cytokine stability over a broad range of temperatures, as a lyophilizate the cytokines are less prone to denaturation due to phase changes from liquid to solid.

EASE OF USE

No need for aliquoting your cytokines, no need to add stabilizing excipients. Simply tear-off and add to your suspension.

Nanokines™ series

Product	Size	Catalogue No
Human PDGFBB	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human MCSF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human GCSF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human bNGF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human BDNF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Human VEGF	12x1000ng	RKP49772B
	20x50ng	RKP49772E
Human TPO	12x1000ng	RKP49772B
	20x50ng	RKP49772E



COST EFFECTIVE

Nanogram sized quantities allow you to use only what you need. Using only the necessary quantities for your experiment, avoiding excess leftovers and “old” stock in your freezers that you feel doubtful about reusing in your next experiment.

ENHANCED STABILITY

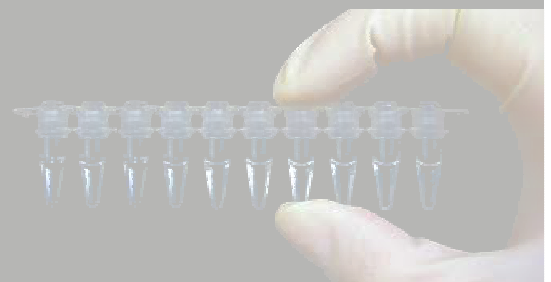
Aging stocks have a bad reputation for losing activity during prolonged storage. Nanokines™ have been proved to be stable over long periods (>12 months) and over a range of temperatures -70C -4C. The minute lyophilizate is highly stable showing no loss of activity over very long storage periods.

VISIBLE PELLET

Although nanokines™ offer minute quantities of cytokine, the cytokine pellet is easily located. The issue of not having a visible pellet can be frustrating and may result in poor extraction from container. Nanokines™ are specifically formulated in a manner to enable easy extraction of cytokine product.

Nanokines™ series

Product	Size	Catalogue No
Mouse FLT3L	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse GMCSF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-3	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-4	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-6	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-1a	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-1b	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-33	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse LIF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse VEGF	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse IL-11	10x1000ng	RKP49772B
	20x50ng	RKP49772E
Mouse TPO	10x1000ng	RKP49772B
	20x50ng	RKP49772E



**TO PLACE AN ORDER OR
RECEIVE TECHNICAL ASSISTANCE**

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