

## PRODUCT INFORMATION SUMMARY

### Human Midkine

Purified Factor	Product Number	HC88870B	20.0 ug
		HC88870A	5.0 ug

#### DESCRIPTION:

Human Midkine ( also known as NEGF-2) is a protein related to Pleiotrophin, which are heparin-bindingneurotrophic factors. They signal via an aplastic lymphoma kinase receptor (ALK). Human Midkine is involved in fetal development and postnatal lung development. Midkine chemoattracts embryonic macrophages, neurons, and neutrophils. Recombinant Human Midkine is a 13.4 kDa protein.

**SOURCE:** E. Coli  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug human Midkine

#### BIOLOGICAL ACTIVITY:

Observed ability to chemoattract human neurophils @ 0.1 ng/mL.

#### HANDLING AND STORAGE:

Purified Human Midkine is provided lyophilized with no additives. Store lyophilized, at -20° C. Upon reconstitution with distilled ( or sterile) water to a concentration of 100 ug/mL, dilute in PBS or other buffered solutions. Store small aliquots at -20 ° C for long-term storage, at high concentration.

**Before opening vial,** it is recommended to microcentrifuge vial for 30 seconds to spin-down any lyophilized material that may adhere to top of vial. The small amounts of protein may adhere to the vial as a very thin coat of lyophilized material, and may be difficult to see as a pellet.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**