ALMAC

Partnering to Advance Human Health

Chemokine FAQs

Q: How are Almac chemokines manufactured?

A: Almac chemokines are manufactured by the chemical process of solid phase peptide manufacture (SPPS) so are totally free from products of animal origin.

Q: The chemokine that I want is not shown on the website, do Almac manufacture any other chemokines?

A: Custom synthesis of other chemokines is available, please contact us with specific requirements: chemokines@almacgroup.com.

Q: What is the typical lead time for the supply of custom chemokines?

A: Custom manufactures vary in lead time from 4-12 weeks, depending on the scale of manufacture required.

Q: Are Almac chemokines manufactured to GMP standards?

A: Almac catalogue chemokines are manufactured to non-GMP standards however we are able to supply GMP grade chemokines, please contact us with specific requirements: chemokines@almacgroup.com.

Q: Are Almac chemokines available in any other aliquot sizes than those specified on the website?

A: Yes, please contact us with any specific requirements. We are also able to provide larger bulk quantites on request: chemokines@almacgroup.com.

Q: Is there any biological assay data available for Almac chemokines?

A: Many of our products have been tested in an aequorin assay against the corresponding human chemokine receptor. In these assays, the products have shown activity which is comparable to the recombinant protein standard.

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Q: How are Almac chemokines shipped and what is the shipping charge?

A: Almac chemokines are shipped at ambient temperature within the UK and Europe and shipped on dry ice to the USA and the rest of the world. Shipping on dry ice within Europe is available upon request. The shipping lead times, courier and charges are shown in the table below. Other couriers are available upon request and customers courier accounts can also be used for shipments.

	Shipping Lead time	**Courier**	**Shipping Charge**
UK	1-2 days	TNT	£40 ambient shipment
Europe	1-2 days	TNT	€85 ambient shipment €100 dry ice shipment
USA	3-4 days	Fedex	$375-$475
ROW	3-4 days	Fedex	£300-£700 depending on destination

Q: Do you have expiry dates/stability information for Almac chemokines?

A: Stability information for Almac chemokines is shown in the table below.

	Frozen Lyophilised Solid	**Frozen Solutions[1]**	**Solutions at 4-9°C**	**Solutions at room temperature**
Native	18 months	12 months	12-14 days	5-7 days
Biotin labelled	18 months	6 months	12-14 days	5-7 days
Alexa Fluor 647® labelled	12 months	6 months	4-7 days	2-4 days

[1] Avoid repeat freeze-thaw cycles

Q: How should Almac chemokines be stored?

A: Ideally, the product should be stored as the lyophilized frozen product. Aliquots can be prepared from a stock solution and frozen, please see above for Almac chemokine stability information.

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Q: How should the lyophilized chemokine products be reconstituted?

A: Centrifuge the vial to make sure the entire lyophilized product is in the well of the vial. The chemokine can be reconstituted in water, or with up to 30% aqueous DMSO. Specific instructions are contained within the product datasheets.

Q: How are Almac chemokines labeled with Biotin and Alexa Fluor 647® and how many positions within the chemokine are labeled?

A: The chemokines are site-specifically labeled at a single amino acid in the sequence at or near the C-terminus. This is confirmed by MS – only one label is present, and there is no unlabelled material present.

Q: What are the advantages of Alexa Fluor 647® over other fluorescent dyes?

A: Advantages of using Alexa Fluor 647® include the following:

- Alexa Fluor conjugates exhibit more intense fluorescence than other spectrally similar conjugates. Alexa Fluor 647® can be used as an alternative to the Cy5 dye.
- Alexa Fluor conjugates are more photostable than most other fluorescent conjugates, allowing more time for image capture.
- Alexa Fluor reactive dyes have good water solubility, so conjugations can be performed without organic solvents and the conjugates are relatively resistant to precipitation during storage.
- Alexa Fluor dyes remain fluorescent over a broad pH range.

Q: What is the chain length of the IL-8 chemokine that Almac supplies? Is it the intact form IL-8(1-77) (containing 77 amino acids) or the NH_2-terminally truncated form IL-8(6-77) (containing 72 amino acids)?

A: We have both native forms available. The Alexa Fluor 647® and biotin labeled versions are IL-8(1-77).