

Datasheet: PHP239

Description:	NATIVE HUMAN LACTOFERRIN
Name:	LACTOFERRIN
Other names:	LACTOTRANSFERRIN
Format:	Purified
Product Type:	Purified Protein
Quantity:	5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified protein from human milk - lyophilized
Reconstitution	Reconstitute with 5 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified by chromatography.
Preservative Stabilisers	None present
External Database Links	UniProt: P02788 Related reagents Entrez Gene: 4057 LTF Related reagents

Synonyms LF

Product Information **Human lactoferrin** is a ~78 kDa globular protein found in body secretions such as milk and saliva and is a member of the transferrin family proteins. Transferrins control the level of free iron in the body, by binding and transporting iron. Lactoferrin does not appear to have a transporting function, instead it has antimicrobial activity, by keeping the levels of iron in body fluids low and thus preventing microbes from acquiring iron. Removing free iron from body fluids and inflamed areas also serve to protect against the damaging effects of free radicals.

Lactoferrin is used as a therapeutic and prophylactic treatment of various illnesses, such as cancers and intestinal illnesses.

Purity ~ 90% by Biuret method

References

1. Wahl, A. *et al.* (2015) Breast Milk of HIV-Positive Mothers Has Potent and Species-Specific *In Vivo* HIV-Inhibitory Activity. [J Virol. 89 \(21\): 10868-78.](#)
2. Yamashita, K. *et al.* (2017) Impact of a 7-Day Field Training on Oral Health Condition in Japan Ground Self-Defense Force Personnel. [Mil Med. 182 \(7\): e1869-77.](#)

Storage

This product is shipped at ambient temperature.
Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10268 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP23910268>

Donor material tested and found negative for HIV, HTLV, HCV and HBsAg.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious.

Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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