

Product datasheet

Recombinant rat IL-1 alpha protein ab9877

Description

Product name	Recombinant rat IL-1 alpha protein
Endotoxin level	< 0.100 Eu/μg
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	<p>Recombinant Rat IL-1a is a 17.7 kDa protein containing 155 amino acid residues: MAPHSFQNNL RYKLIRIVKQ EFIMNDSLNLQ NIYV DMDRIH LKAASLNDLQ LEVKFDMYAYSSGGDSKYPV TLKVSNTQLF VSAQGEDKPV LLKEIPETPK LITGSETDLI FFWEKINSKNYFTSAAF PEL LIATKEQSQV HLARGLPSMIDFQIS</p>

Specifications

Our [Abpromise guarantee](#) covers the use of **ab9877** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	<p>Functional Studies</p> <p>SDS-PAGE</p>
Form	Lyophilised
Additional notes	The ED ₅₀ , determined by the dose-dependent stimulation of murine D10S cells, is < 0.005 ng/ml, corresponding to a specific activity of > 2 x 10 ⁸ units/mg.

Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>n/a</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
------------------------------	--

Reconstitution

For lot specific reconstitution information please contact our Scientific Support Team.

General Info

Function

Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

Sequence similarities

Belongs to the IL-1 family.

Domain

The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.

Cellular localization

Secreted. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors