

# Short™ AE-IGF-1

## Insulin-like Growth Factor 1

### Product Information

#### Synonyms

AE-IGF-1, RhShort AE-IGF-1, Short IGF-

#### Introduction

Short AE-IGF-1 is a recombinant analog of human insulin-like growth factor-I (IGF-1) that has been engineered with an N-terminal Ala-Glu sequence for use specifically in Cell Culture. It is approximately 100 fold more biologically potent, *in-vitro*, than insulin and significantly increases recombinant protein production and reduces apoptosis. Ideally suited for both research and large-scale culture systems utilizing serum-free media.

#### Application

For laboratory research and large-scale in-vitro biopharmaceutical manufacturing use only. Not for diagnostic or therapeutic use.

#### Process Description

Short AE-IGF-1 is manufactured by CellRx according to cGMP principles in a proprietary but conventional *Escherichia coli* expression system. Cells are cultivated in a propriety fed-batch process using fully defined animal free media components. Recombinant Short AE-IGF-1 (MW 7.85kDA) is refolded into a stable tertiary structure and further purified by chromatography processes. Each batch is supplied with a detailed certificate of analysis.

#### Appearance

Short AE-IGF-1 is available as a 1-2mg/ml clear liquid formulation in 100mM acetic acid.

#### Purity, Molecular Weight, Identity

**Purity:** Greater than 95% as determined by RP-HPLC and SDS-PAGE analysis, with a very low level of endotoxins (and host cell proteins) making this product ideal for mammalian cell culture work.

**Molecular weight:** 7845-7850 Da.

**Identity:** N-terminal analysis AEGPET.

#### pH and Osmolality

Short AE-IGF-1 is supplied as a stable soluble product that can be added directly into cell culture media without any further handling or risk of influence on cell culture pH and osmolality.

#### Biological Activity

All cells that have a functional Type 1 IGF receptor will respond to Short AE-IGF-1. This includes commercially available Cell lines such as CHO, PER.C6, BHK, HEK 293, Embryonic stem cells, mesenchymal stem cells, hematopoietic stem cells, fibroblasts, and hybridomas.

#### Storage and Stability

Liquid Short AE-IGF-1, in original unopened vial is stable for 4 years when stored at 2-8°C. Storage and handling conditions of the product should be maintained at between 2-8°C.

#### General

This quality product is delivered for all types of mammalian cell culture and research projects. In order to increase the specific performance of each individual cell culture, CellRx supports the setup and optimization of your culture conditions. The support is customized for each individual program and is mediated through the advice from our specialists with more than 25 years of cell culture development expertise.

### Pricing

CAT#	PACK SIZE	PRICE (US \$)
8000	100µg	Evaluation*
8010	10mg	\$400
8011	100mg	\$2,500
8012	500mg	\$8,000
8013	1,000mg	\$13,000
8014	Bulk	Custom*

\*Contact us for bulk pricing options and evaluation samples

### CONTACT SALES

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Short™AE-IGF-1 is a registered trade-mark of CellRx Ltd. and covered by the following patents assigned to CellRx US Patents 5,459,052, 5,691,168 and 5,708,134.

