

**DESCRIPTION**

**Source** *E. coli*-derived  
Gly49 - Ala118  
Accession # P05019

**N-terminal Sequence Analysis** Gly49

**Predicted Molecular Mass** 7.6 kDa

**SPECIFICATIONS**

**SDS-PAGE** 7 kDa, reducing conditions

**Activity** Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. Karey, K.P. *et al.* (1988) Cancer Research 48:4083.  
The ED<sub>50</sub> for this effect is 0.3-1.5 ng/mL.

**Endotoxin Level** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**PREPARATION AND STORAGE**

**Reconstitution** For a stock solution, reconstitute at 200 µg/mL in sterile PBS, or simply roll ProDot® directly into cell culture medium for immediate use.

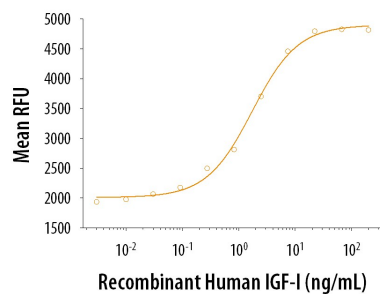
**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 6 months from date of receipt at room temperature as supplied.
- 12 months from date of receipt at 2-8 °C as supplied.
- 1 month at 2-8 °C under sterile conditions after reconstitution.
- 3 months at -20 to -80 °C under sterile conditions after reconstitution.

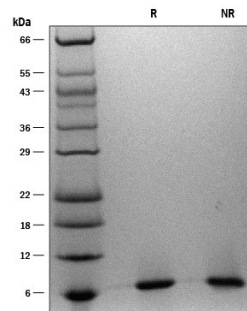
**DATA**

**Bioactivity**



ProDots® Recombinant Human IGF-I stimulates proliferation in the MCF-7 human breast cancer cell line. The ED<sub>50</sub> for this effect is 0.3-1.5 ng/mL.

**SDS-PAGE**



1 µg/lane of ProDots® Recombinant Human IGF-I was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing a single band at 7 kDa.

**PRODUCT SPECIFIC NOTICES**

726248.1