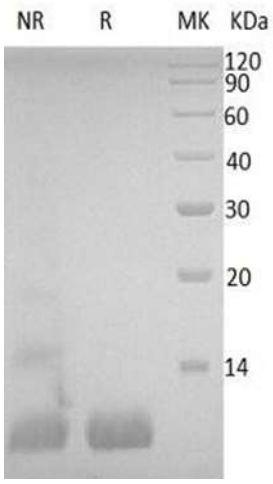
Recombinant Human IGF-I(4-70)

Catalog No: C031

Description	Recombinant Human Insulin-like Growth Factor I is produced by our E.coli expression system and the target gene encoding Thr52-Ala118 is expressed.
Source	E. coli
Alternative name	Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-C; IGF1; IBP1
Accession No.	P05019
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM NaAc-HAc, pH 4.5
Quality Control	Bioactivity* Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells The ED50 for this effect is typically 8 ng/mL. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	TLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAKSA
Background	Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGFs are generated by proteolytic processing of inactive precursor protein containing N-terminal and C-terminal propeptide regions. Mature human IGF-I consisting of 70 amino acids with 94% identity with mouse IGF1 and exhibits cross-species activity. IGF1 binds IGF-1R, IGF-2R, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF1 expression is regulated by growth hormone.

SDS-PAGE



MK: Marker

R: Reducing conditions

NR: Non-reducing conditions