

	<b>IGF1</b>	<b>E 2 1   0 3 1</b>
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<b>Altername:</b>	Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-C; IGF1; IBP1
<b>Storage/Stability:</b>	<p>Lyophilized protein should be stored at <math>&lt; -20^{\circ}\text{C}</math>, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at <math>4-7^{\circ}\text{C}</math> for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at <math>&lt; -20^{\circ}\text{C}</math> for 3 months.</p>
<b>Background:</b>	<p>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.</p>
<b>Species:</b>	Human
<b>Reconstitution:</b>	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than <math>100\text{ }\mu\text{g/ml}</math>.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-</p>

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	thaw cycles.
<b>Endotoxin:</b>	Less than 0.05 ng/μg (0.5 IEU/μg) as determined by LAL test.
<b>Purity:</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Description:</b>	Recombinant Human Insulin-like Growth Factor I(4-70) is produced by our E.coli expression system and the target gene encoding Thr52-Ala118 is expressed.
<b>Product State:</b>	Lyophilized
<b>Ship Description:</b>	The product is shipped at ambient temperature.
<b>Formulation:</b>	Lyophilized from a 0.2 μm filtered solution of 300mM NaAc, pH 6.5.
<b>Expression system:</b>	E.coli