

## Recombinant Human IGF-1, Tag Free

### ■ 基本信息

别称	IGF1A, Insulin-Like Growth Factor 1, Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF.
Gene ID	3479
Accession #	P05019
蛋白序列	Gly49-Ala118
分子量	7.6 kDa
来源	293T 细胞
生物活性	以下数据来自于小鼠CTLL-2细胞的剂量依赖性实验： ED50: < 0.1 ng/mL 放射性比度: > 1x10 <sup>7</sup> units/mg.

### ■ 组分和存储

产品形式	该蛋白以溶解于 PBS 缓冲液的形式提供。
存储说明	此产品可稳定存在于如下条件中： <ul style="list-style-type: none"><li>• 4°C 保存一周；</li><li>• -20°C 保存 3 个月。</li><li>• 请避免多次反复冻融。</li></ul>

### ■ 质量控制

纯度	≥ 95%，数据来自于 SDS-PAGE 和 HPLC 检测。
内毒素水平	< 0.1 ng/μg

详细 QC 信息请参阅 CoA。

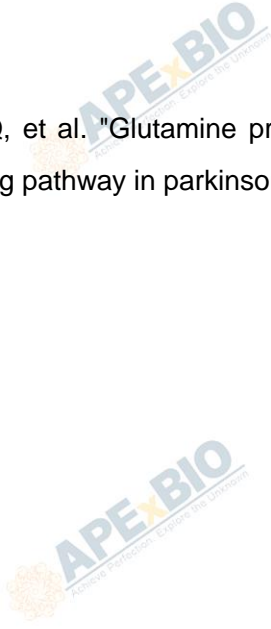
### ■ 背景介绍

Insulin-like growth factor I (IGF-1) is a polypeptide endocrine hormone structurally similar to insulin and is mainly produced in the liver when stimulated by growth hormone. IGF-1 is a growth factor that stimulates the proliferation of various cell types including muscle, bone, and cartilage tissue. IGF-1 binds and interacts with the IGF-1 binding proteins (IGFBPs). IGF-1 binds to the IGF-1 receptor with a higher affinity than the insulin receptor.

Human IGF-I is synthesized as two precursor isoforms with N- and alternate C-terminal propeptides, which are proteolyzed to produce the identical 7.6 kDa mature IGF-I. Mature human IGF I shares 94% and 96% aa sequence identity with mouse IGF1 and rat IGF1, respectively, and exhibits cross species activity. Human IGF-1 is a 7.6 kDa protein containing 70 amino acid residues. The recombinant human IGF-1 was produced using animal origin free technology.

## ■ 参考文献

Zhao Y, Wang Q, et al. "Glutamine protects against oxidative stress injury through inhibiting the activation of PI3K/Akt signaling pathway in parkinsonian cell model." Environ Health Prev Med. 2019 Jan 5;24(1):4.



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