

Recombinant Human LR3-IGF-1

Catalog No : PMK2153

Known As: Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-C; IGF1; IBP1

PROPERTIES Recombinant Human LR3 Insulin-Like Growth Factor-I is produced by our E.coli expression system and the target gene encoding Gly49-Ala118 is Description expressed. . P05019 Accession Lyophilized from a 0.2 µm filtered solution of 20mM NaAc-HAc, 4% Mannitol, Formulation pH 4.5. $10\mu g/50\mu g/500\mu g/1mg$ Size >95% Purity $< 1 \text{ EU/}\mu g$ as determined by LAL test. Endotoxin 9.1 KDa Predicted Mol Mass 11 KDa, reducing conditions Apparent Mol Mass Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitution It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. The product is shipped at ambient temperature. Shipping Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at $\leq -20^{\circ}$ C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Storage Aliquots of reconstituted samples are stable at \leq -20°C for 3 months. 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 proteins, which contains the N- and Cterminal propeptide regions. Mature human IGF-I consisting of 70 amino acids has 94% identity with mouse IGF-I and exhibits cross-species activity. IGF-1 binds IGF-IR, IGF-IIR, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF-1 Background expression is regulated by growth hormone. R3 IGF-1 is an 83 amino acid analog of IGF-1 comprising the complete human IGF-1 sequence with the substitution of an Arg (R) for the Glu(E) at position three, hence R3, and a 13 amino acid extension peptide at the N terminus. R3 IGF-1 has been produced with the purpose of increasing biological activity. R3 IGF-1 is signifi-cantly more potent than human IGF-I in vitro.

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