Recombinant Human IGFBP3

Cat No:HR2R1524

For research use only

Overview

Quantity	25 ?g
Gene Symbol	IGFBP3
Gene ID	3486
Accession	P17936
Alternative Name	IGF-binding protein 3, IGF-BP3, IBP-3 Recombinant Human Insulin-like Growth Factor Binding Protein 3 (IGFBP3)
Species	Human
Source	E. coli
Description	IGFBPs are synthesized in the liver and are produced also by various tumor cell lines and cell types. IGFBPs are high affinity binding proteins for IGF. The major fraction of both types of IGF circulating in the blood are bound non- covalently to these carrier proteins. IGF binding proteins modulate IGF activities by increasing their plasma half lives and by inhibiting or promoting the interactions of IGF with receptors on certain target cells. In addition these binding proteins provide a reservoir for IGF in pericellular spaces. Some IGFBPs also have stimulating effects in vitro and some may inhibit the growth of cells. IGFBP1 is found predominantly in the placenta and the amniotic fluid. The predominant sites of IGFBP1 transcription in the human fetal kidney are those with most active differentiation. Elevated serum levels have been observed in patients with Laron-type dwarfism and Growth hormone deficiency. High serum levels of IGFBP1 are found in newborns and it has been suggested that this could be important in protecting them from hypoglycemia.
Functions	The ED(50) was determined by the ability to inhibit IGF-I induced proliferation of MCF-7 and was found to be ? 0.5 ?g/mL.
Formulation	Recombinant IGFBP3 was lyophilized from a 0.2 ?m filtered PBS solution.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	28
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature

Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.