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Product Datasheet

Human Angiopoietin 2 protein, His tag, Unconjugated GTX00212-PRO

Article Name	Human Angiopoietin 2 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00212-PRO
Supplier Catalog Number	GTX00212-pro
Alternative Catalog Number	GTX00212-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	285
UniProt	O15123
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Lys24~Leu165 (NP_001112359.1)

Application Notes

Angiopoietin is part of a family of vascular growth factors that play a role in embryonic and postnatal angiogenesis. Angiopoietin cytokines are involved with controlling microvascular permeability, vasodilation, and vasoconstriction by signaling smooth muscle cells surrounding vessels. There are now four identified angiopoietins: ANGPT1, ANGPT2, ANGPT3, ANGPT4. Angiopoietin 2 (ANGPT2) promotes cell death and disrupts vascularization. Yet, when it is in conjunction with vascular endothelial growth factors, or VEGF, it can promote neo-vascularization. Besides, TEK Tyrosine Kinase (Tie2) has been identified as an interactor of ANGPT2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ANGPT2 and recombinant human Tie2. Briefly, ANGPT2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Tie2-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-ANGPT2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of ANGPT2 and Tie2 was in a dose dependent manner.