Active Recombinant Human ITGAD&ITGB2 protein, His-tagged

Cat. No. ITGAD&ITGB2-1586H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAD&ITGB2 protein(Phe18-Asn1099(ITGAD)&Gln23-Asn700(ITGB2)), fused with His tag, was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	18-1099;23-700 a.a.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human ITGAD&ITGB2 Heterodimer Protein, His Tag&Tag Free at 1 μg/mL (100 μL/well) can bind Human Integrin beta 2/CD18 Antibody with a linear range of 0.3-5 ng/mL.
Molecular Mass	Molecular CharacterizationHuman Integrin alpha D beta 2 (ITGAD&ITGB2) Heterodimer Protein, produced by co-expression of ITGAD and ITGB2, has a calculated MW of 124.9 kDa (ITGAD) and 80.2 kDa (ITGB2). Subunit ITGAD is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The protein migrates as 150 kDa (ITGAD) and 90-100 kDa (ITGB2) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Phe18-Asn1099(ITGAD)&Gln23-Asn700(ITGB2)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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