

Biotinylated Human CRTh2 Nanodisc

Cat. No. CRT-HM1HNB



Description

Source	Recombinant Biotinylated Human CRTh2 Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Ser395.
Accession	Q9Y5Y4
Molecular Weight	The protein has a predicted MW of 56.22 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.

Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

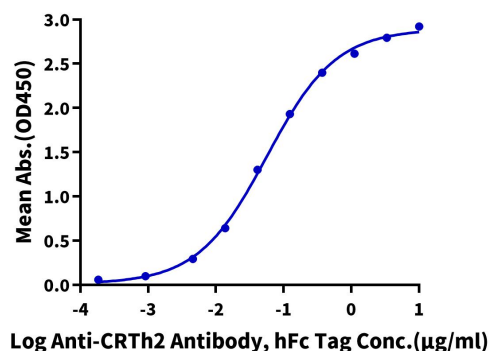
A seven-transmembrane receptor, CRTH2, which is preferentially expressed in T helper type 2 (Th2) cells, eosinophils, and basophils in humans, serves as the novel receptor for PGD2. In response to PGD2, CRTH2 induces intracellular Ca²⁺ mobilization and chemotaxis in Th2 cells in a G_qi-dependent manner. In addition, CRTH2, but not DP, mediates PGD2-dependent cell migration of blood eosinophils and basophils. Thus, PGD2 is likely involved in multiple aspects of allergic inflammation through its dual receptor systems, DP and CRTH2.

Assay Data

ELISA Data

Biotinylated Human CRTh2 Nanodisc, His Tag ELISA

0.5µg Biotinylated Human CRTh2 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human CRTh2 Nanodisc, His Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CRTh2 Antibody, hFc Tag with the EC₅₀ of 56.4ng/ml determined by ELISA.