

Anti-GPR44/PTGDR2/CD294 Antibody

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anti-GPR44/PTGDR2/CD294 Antibody is a humanized monoclonal antibody expressed in CHO cells targeting the GPCR GPR44 (CRTH2/PTGDR2). Featuring a hulgG1 heavy chain and a hukappa light chain, it binds specifically to the extracellular domain of GPR44, blocking the binding of its ligand PGD2. This antagonism inhibits PGD2-induced Gi protein-coupled signaling, restoring intracellular cAMP levels and reducing calcium mobilization, thereby inhibiting the chemotaxis and activation of Th2 cells, eosinophils, and basophils.
Targets(IC50)	GPCR
In vitro	In flow cytometry and biochemical assays, Anti-GPR44/PTGDR2/CD294 Antibody specifically binds to the extracellular N-terminus of GPR44. In functional assays, it antagonizes PGD2-induced Gi signaling with an IC50 of approx. 3.1 nM in cAMP assays and blocks PGD2-mediated calcium mobilization and chemotaxis in receptor-expressing cells [1].
In vivo	In pharmacological studies using mouse models, systemic administration of Anti-GPR44/PTGDR2/CD294 Antibody (at doses such as 10 mg/kg) results in the neutralization of PGD2-induced biological responses. The treatment leads to a significant reduction in the infiltration of inflammatory leukocytes in complex physiological environments [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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