

Recombinant Human CD28H/IGPR-1 (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human CD28H/IGPR-1 (His Tag)	94146ES25	25 µg
	94146ES60	100 µg
	94146ES76	500 µg
	94146ES80	1 mg

产品描述

CD28 homolog (CD28H), also called TMIG2 and IGPR-1, is a 55 kDa glycosylated transmembrane protein that shares approximately 10% amino acid (aa) sequence identity with CD28, CTLA-4, ICOS, and PD-1. CD28H is composed of a single extracellular immunoglobulin variable-like domain (IgV) (aa 23-109), a transmembrane domain (aa 151-171), and a long cytoplasmic domain (aa172-282). CD28H is constitutively expressed on naive T and NK cells. Similar to the interaction of B7 with CD28, the interaction of CD28H with B7-H7 activates the Akt-dependent signaling cascade and promotes the proliferation and activation of newly generated peripheral effector and memory T cells. CD28H is additionally expressed in the skin and epithelium lining the lung, airway, mammary gland, and gastrointestinal tract. It regulates cellular morphology, focal adhesion contact formation, and cell migration. CD28H also participates in angiogenesis in vitro. CD28H interacts with multiple cytoskeletal proteins including Actin, Paxillin, SPIN90, CACNB2, and BPAG1. Interactions between the cytoplasmic proline-rich domain of CD28H and SPIN90 modulate the activity of CD28H in both angiogenesis and cell adhesion.

产品性质

别名	TMIGD2; IGPR1; IGPR-1; CD28H; TPC1
Uniprot No.	Q96BF3.1
表达区间及表达系统	Recombinant CD28H/IGPR-1 Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Leu23-Gly150.
分子量	Approximately 15.1 kDa. Due to glycosylation, the protein migrates to 42-52 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	ELISA Data: Immobilized Human CD28H, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 0.06µg/ml determined by ELISA.
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

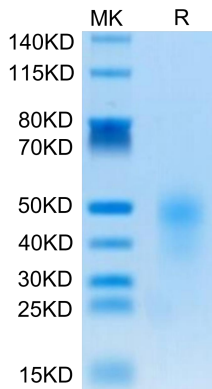
建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

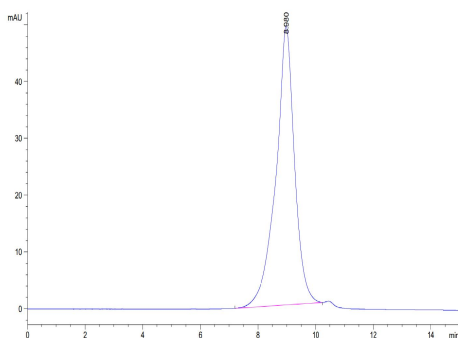
产品数据

Tris-Bis PAGE



Human CD28H on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

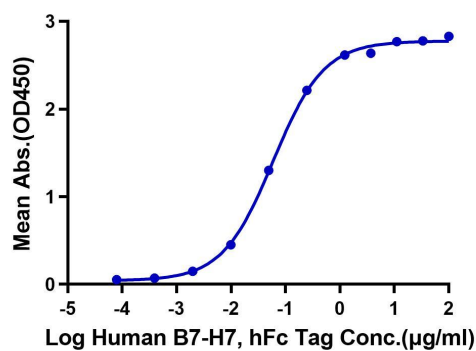
SEC-HPLC



The purity of Human CD28H is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD28H, His Tag ELISA
 0.2 μ g Human CD28H, His Tag Per Well



Immobilized Human CD28H, His Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 0.06 μ g/ml determined by ELISA.