

Recombinant Rat Il13ra1 Protein, C-hFc-tagged

Product Information

Cat	IMP-4640
Official Symbol	Il13ra1
Product Overview	Recombinant rat IL13RA1 (Q561K3) (Met1-Thr342) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Description	<p>Interleukin 13 receptor, alpha 1, also known as IL13RA1/IL-13RA1 and CD213A1 (cluster of differentiation 213A1), is a subunit of the interleukin 13 receptor. This subunit forms a receptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. IL13RA1/IL-13RA1 serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2 and thus may mediate the signaling processes that lead to the activation of JAK1, STAT3, and STAT6 induced by IL13 and IL4. IL13RA1/IL-13RA1 binds with low affinity to interleukin-13 (IL13). This subunit together with IL4RA can form a functional receptor for IL13. IL13RA1/IL-13RA1 also serves as an alternate accessory protein to the common cytokine receptor gamma chain for interleukin-4 (IL4) signaling, but cannot replace the function of IL2RG in allowing enhanced interleukin-2 (IL2) binding activity.</p>
Expression System	HEK293
Species	Rat
Tag	C-hFc
Predicted N Terminal	Thr 27
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	The recombinant rat IL13RA1/Fc is a disulfide-linked homodimer. The reduced monomer comprises 557 amino acids and has a predicted molecular mass of 62.9 kDa. The apparent molecular mass of the protein is approximately 91 kDa in SDS-PAGE under reducing conditions.
Protein length	Met1-Thr342
Endotoxin	< 1.0 EU/μg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

SDS-PAGE

