

Product datasheet

Recombinant rat SCF protein ab123774

製品の概要

製品名	Recombinant rat SCF protein
タンパク質長	Protein fragment

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
アクセッション番号	P21581
生物種	Rat
分子量	18 kDa
領域	26 to 190

特性

Our [Abpromise guarantee](#) covers the use of **ab123774** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	The ED ₅₀ as determined by the dose-dependent stimulation of the proliferation of Human MO7e cells is <10 ng/ml, corresponding to a specific activity of >1 x 10 ⁵ units/mg.
アプリケーション	Functional Studies SDS-PAGE HPLC
精製度	> 98 % SDS-PAGE. Purity is greater than 98% as determined by HPLC and SDS-PAGE. Endotoxin Level: <0.1 ng/μg.
製品の状態	Lyophilised

前処理および保存

保存方法および安定性	Shipped at 4°C. Store at -20°C. Store under desiccating conditions. pH: 7.50
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Constituent: 0.24% Tris

This product is an active protein and may elicit a biological response in vivo, handle with caution.

再構成

Reconstitute in H₂O to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers. Reconstituted SCF should be stored in working aliquots at -20°C.

関連情報

機能

Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. Promotes phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5. KITLG/SCF and KIT promote activation of PLCG1, leading to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.

関連疾患

Hyperpigmentation with or without hypopigmentation, familial progressive Deafness, congenital, unilateral or asymmetric

配列類似性

Belongs to the SCF family.

発生段階

Acts in the early stages of hematopoiesis.

翻訳後修飾

A soluble form (sKITLG) is produced by proteolytic processing of isoform 1 in the extracellular domain.

Found in two differentially glycosylated forms, LMW-SCF and HMW-SCF. LMW-SCF is fully N-glycosylated at Asn-145, partially N-glycosylated at Asn-90, O-glycosylated at Ser-167, Thr-168 and Thr-180, and not glycosylated at Asn-97 or Asn-118. HMW-SCF is N-glycosylated at Asn-118, Asn-90 and Asn-145, O-glycosylated at Ser-167, Thr-168 and Thr-180, and not glycosylated at Asn-97.

A soluble form exists as a cleavage product of the extracellular domain.

細胞内局在

Secreted; Cell membrane and Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane. Cell projection, lamellipodium. Cell projection, filopodium.

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