

GPR15 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702304
Synonyms:	G-protein coupled receptor 15; Brother of Bonzo; BoB
Species:	Human
Source:	E. coli Cell-free
Accession:	P49685 (M1-L360)
Gene ID:	2838
Molecular Weight:	43.6 kDa

PROPERTIES

AA Sequence

MDPEETS VYL	DYYYATSPNS	DIRETHSHVP	YTSVFLPVFY
TAVFLTGLG	NLVLMGALHF	KPGSRRLIDI	FIINLAASDF
IFLVTLPLWV	DKEASLGLWR	TGSFLCKGSS	YMISVNMHCS
VLLLTCSVD	RYLAIVWPVV	SRKFRRTDCA	YVVCASIWFI
SCLLGLPTLL	SRELTLIDDK	PYCAEKKATP	IKLIWSLVAL
IFTFFVPLLS	IVTCYCCIAR	KLCAHYQQSG	KHNKCLKKSI
KIIFIVVAAF	LVSWLPFNTF	KFLAIVSGLR	QEHYLPAIL
QLGMEVSGPL	AFANSCVNP	IYYIFDSYIR	RAIVHCLCPC
LKNYDFGSST	ETSDSHLTKA	LSTFIHAEDF	ARRRKRSVSL

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The GPR15 protein is identified as a probable chemokine receptor, signifying its potential involvement in cellular responses to chemotactic signals. Notably, GPR15 serves as an alternative coreceptor alongside CD4 for HIV-1 infection, suggesting its

role in facilitating viral entry into host cells. This dual functionality implies that GPR15 plays a multifaceted role in both immune response regulation through chemokine signaling and in the context of viral pathogenesis by contributing to the entry process of HIV-1. The identification of GPR15 as a chemokine receptor and a potential coreceptor for HIV-1 underscores its significance in mediating diverse cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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