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SEMA7A Protein (AA 45-648) (His tag)

Images



Overview

Quantity:	100 μg
Target:	SEMA7A
Protein Characteristics:	AA 45-648
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA7A protein is labelled with His tag.

Product Details

Purpose:	Human SEMA7A Protein
Sequence:	Gln45-Ala648
Characteristics:	Recombinant Human SEMA7A Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln45-Ala648.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

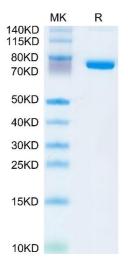
Target:	SEMA7A
Alternative Name:	SEMA7A (SEMA7A Products)

Target Details

Expiry Date:

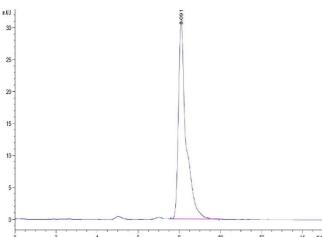
12 months

Background:	Semaphorin7A (Sema7A) plays an important role in the immunoregulation of the brain.Sema7A
	is upregulated in the epileptic brain and plays a potential role in the regulation of seizure activity
	in PTZ-kindled epileptic rats, which may be related to neuroinflammation. Sema7A promotes
	the inflammatory cytokines TNF- α and IL-6 as well as the growth of mossy fibers through the
	ERK pathway, suggesting that Sema7A may promote seizures by increasing neuroinflammation
	and activating pathological neural circuits. Sema7A plays a critical role in epilepsy and could be
	a potential therapeutic target for this neurological disorder.
Molecular Weight:	69.5 kDa. Due to glycosylation, the protein migrates to 70-75 kDa based on Tris-Bis PAGE result.
Pathways:	Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response, Regulation of Cell Size
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is
	recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as
	protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after
	reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into
	smaller quantities for optimal storage. Please minimize freeze-thaw cycles.



SDS-PAGE

Image 1. Human SEMA7A on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human SEMA7A is greater than 95 % as determined by SEC-HPLC.