

# Recombinant Human Semaphorin-3G/SEMA3G Protein

## RPCB0978



### Product Information

<b>Product SKU:</b>	RPCB0978	<b>Gene ID:</b>	56920	<b>Size:</b>	10µg
<b>Tag:</b>	C-His	<b>Reactivity:</b>	Human		

### Additional Information

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	Q9NS98
<b>Purity:</b>	> 90% by SDS-PAGE.		

### Protein Information

**Background:** Semaphorin 3G (Sema3G), also known as Semaphorin sem2, is a class 3 member of the semaphorin family initially identified as regulators of neuron-axonal guidance. More than 30 semaphorins have been discovered and are divided into eight classes: classes 1 and 4-7 are membrane-associated, while classes 2, 3, and 8 are in a secreted form. In vitro analysis shows Sema 3G binds to Neuropilin-2, which forms a receptor complex with Plexin-D1. Via this pathways Sema 3G controls lymphatic vascular patterning by the means of cellular collapse. It shows protective effects in ischemic retinopathies by coordinating interactions of beta -catenin and VE-Cadherin in endothelium. Sema 3G has been shown to be involved in adipocyte differentiation. Knockdown of Sema3G inhibited weight gain through PI3K/Akt/GSK3 beta signaling in the adipose tissue and the AMPK/SREBP-1c pathway in the liver. Thus, Sema 3G is an adipokine essential for adipogenesis, lipogenesis, and insulin resistance and is associated with obesity.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Semaphorin-3G/SEMA3G Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.

**Endotoxin:** Please contact us for more information.

**Formulation:** Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

**Contact Details | Dublin, Ireland**

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**Storage:**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.