

Recombinant Human Vasorin/SLIT-like 2 Fc Chimera

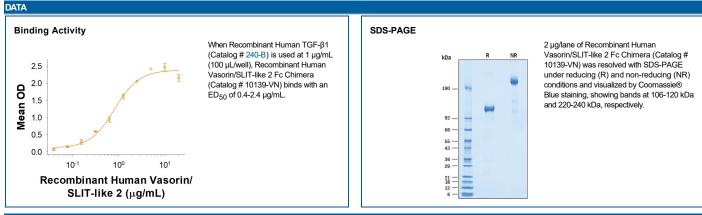
Catalog Number: 10139-VN

DESCRIPTION				
Source	Human embryonic kidney cell, HEK293-derived human Vasorin/SLIT-like 2 protein			
	Human Vasorin/SLIT-like 2 (Cys24-Asn573) Accession # Q6EMK4	IEGRMD	Human IgG ₁ (Pro100-Lys330)	
	N-terminus			
N-terminal Sequence Analysis	Cys24			
Structure / Form	Disulfide-linked homodimer			
Predicted Molecular Mass	86 kDa			

SPECIFICATIONS		
SDS-PAGE	106-120 kDa, under reducing conditions	
Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human TGF-β1 (Catalog # 240-B) is used at 1 μg/mL (100 μL/well), Recombinant Human Vasorin/SLIT-like 2 Fc Chimera (Catalog# 10139-VN) binds with an ED ₅₀ of 0.4-2.4 μg/mL.	
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.	
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 500 μg/mL in PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
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- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



BACKGROUND

Vasorin, also known as SLIT-like 2, is an approximately 110-kDa transmembrane protein that is expressed on vascular smooth muscle cells and in the developing skeletal system (1, 2). It is down-regulated following vascular injury (1). A 95-kDa soluble form of Vasorin can be shed from the cell surface by ADAM17-mediated cleavage (3). The shed soluble form of Vasorin binds to TGF-beta 1, 2, and 3 and prevents TGF-beta-induced effects including intimal formation and epithelial mesenchymal transition (1, 3). Soluble Vasorin is elevated in the serum of hepatic carcinoma patients relative to normal or non-cancerous hepatic disease (4). It promotes tumor cell proliferation, migration, and survival (4). Mature human Vasorin consists of a 552 amino acid (aa) extracellular domain (ECD) with 10 leucine rich repeats (LRR) flanked by one LRRNT and one LRRCT domain, one EGF-like domain, and one Fibronectin type III domain, a 21 aa transmembrane segment, and a 77 aa cytoplasmic domain (1). Within the ECD, human Vasorin shares 85% and 86% as sequence identity with mouse and rat Vasorin, respectively.

References:

- 1. Ikeda, Y. et al. (2004) Proc. Natl. Acad. Sci. USA 101:10732.
- 2. Krautzberger, A.M. et al. (2012) Gene Expr. Patterns 12:167.
- 3. Malapeira, J. et al. (2011) Oncogene 30:1912.
- 4. Li, S. et al. (2015) Oncotarget 6:10045.

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