

Human VEGFR-2/KDR-Fc Chimera, soluble

ORDERING INFORMATION

Catalog Number:	SFC-007
Size:	10ug (Range 10-100 ng/ml)
Source:	Insect Cell
Purity:	> 90%
Endotoxin level:	< 0.1 ng per ug of sVEGFR-2
Stabilizer:	None
Buffer:	PBS pH 7.4 w/o preservative
Formulation:	Lyophilized

Description:

Recombinant human soluble Vascular Endothelial Growth Factor Receptor-2 (sVEGFR-2(D7)) was fused with the Fc part of human IgG1. The recombinant mature sVEGFR-2(D7)/Fc is a disulfide-linked homodimeric protein. The soluble receptor protein consists of all 7 extracellular domains (Met1-Ala757), which contain all the information necessary for high affinity ligand binding. Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), and VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signalling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. Differential splicing of the flt-1 gene leads to the formation of a secreted, soluble variant of VEGFR-1 (sVEGFR-1). No naturally occurring, secreted forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin.

Reconstitution:

The lyophilized sVEGFR-2/Fc is soluble in water and most aqueous buffers, it should be reconstituted in water or medium to a concentration not lower than 50 µg/ml.

Stability:

Lyophilized samples are stable for greater than six months at -20 °C to -70 °C. Reconstituted sVEGFR-2/Fc should be stored in working aliquots at -20 °C. **Avoid repeated freeze-thaw cycles!**

Optimal dilutions should be determined by each laboratory for each application.

The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users!

This product is sold for Research Use Only !

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