**Supplementary Table 1.** The residue around active site of the protein was predicted by using CASTp

| VEGF | Area (SA) | Volume (SA) | Sequence |
|---|---|---|---|
| VEGF-A | 161.609 | 122.264 | A:GLY59, A:CYS60, A:CYS61, A:ASN62, A:ASP63, A:GLU64, A:LEU66, A:GLU67, A:CYS68, A:LYS107, B:ASP34, B:ILE35, B:PHE36, B:ILE46, B:PHE47, B:LYS48, B:SER50 |
| VEGF-B | 149.220 | 90.134 | A:LEU35, A:THR36, A:VAL37, A:LEU39, A:MET40, A:THR42, A:ALA44, A:LYS45, A:LEU47, A:ILE80, A:MET82, A:GLY91, A:GLU92, A:MET93 |
| VEGF-C | 239.334 | 291.758 | R:TYR137, R:ILE138, R:THR139, R:GLU140, R:ASN141, R:LYS144, R:THR145, R:VAL146, R:SER189, R:TYR190, R:SER193, R:VAL218, R:VAL219, R:GLY220, R:TYR221, R:ARG222, R:TYR224, R:GLU251, R:LEU252, R:ASN253, R:GLU284 |
| VEGF-D | 44.737 | 14.779 | A:VAL118, A:VAL120, A:GLU123, A:LEU124, A:TYR160, A:VAL181, A:LYS182, A:VAL183, A:ALA184 |

CASTp, computed atlas of surface topography of proteins; VEGF, vascular endothelial growth factor.