35. Fraering P.C., Ye W., Strub J.M., et al. Purification and characterization of the human gamma-secretase complex. *Biochemistry*. 2004; 43 (30): 9774–89. https://doi.org/10.1021/bi0494976.
36. Marambaud P., Shioi J., Serban G., et al. A presenilin-1/gamma-secretase cleavage releases the E-cadherin intracellular domain and regulates disassembly of adherens junctions. *EMBO J*. 2002; 21 (8): 1948–56. https://doi.org/10.1093/emboj/21.8.1948.
37. Asuni A.A., Hooper C., Reynolds C.H., et al. GSK3alpha exhibits beta-catenin and tau directed kinase activities that are modulated by Wnt. *Eur J Neurosci*. 2006; 24 (12): 3387–92. https://doi.org/10.1111/j.1460-9568.2006.05243.x.
38. Wong A.S., Lee R.H., Cheung A.Y., et al. Cdk5-mediated phosphorylation of endophilin B1 is required for induced autophagy in models of Parkinson's disease. *Nat Cell Biol*. 2011; 13 (5): 568–79. https://doi.org/10.1038/ncb2217.
39. Ozcan L., Kasikara C., Yurdagul A. Jr., et al. Allosteric MAPKAPK2 inhibitors improve plaque stability in advanced atherosclerosis. *PLoS One*. 2021; 16 (5): e0246600. https://doi.org/10.1371/journal.pone.0246600.
40. Triantafilou K., Triantafilou M., Dedrick R.L. A CD14-independent LPS receptor cluster. *Nat Immunol*. 2001; 2 (4): 338–45. https://doi.org/10.1038/86342.
41. Hoarau C., Gérard B., Lescanne E., et al. TLR9 activation induces normal neutrophil responses in a child with IRAK-4 deficiency: involvement of the direct PI3K pathway. *J Immunol*. 2007; 179 (7): 4754–65. https://doi.org/10.4049/jimmunol.179.7.4754.
42. Gilchrist A., Echeverria S.L. Targeting chemokine receptor CCR1 as a potential therapeutic approach for multiple myeloma. *Front Endocrinol*. 2022; 13: 846310. https://doi.org/10.3389/fendo.2022.846310.
43. Wu Y., Xi J., Li Y., et al. Discovery of a potent and selective CCR8 small molecular antagonist IPG7236 for the treatment of cancer. *J Med Chem*. 2023; 66 (7): 4548–64. https://doi.org/10.1021/acs.jmedchem.3c00030.
44. Willems L.I., Ijzerman A.P. Small molecule antagonists for chemokine CCR3 receptors. *Med Res Rev*. 2010; 30 (5): 778–817. https://doi.org/10.1002/med.20181.
45. Kim S.F., Huri D.A, Snyder S.H. Inducible nitric oxide synthase binds, S-nitrosylates, and activates cyclooxygenase-2. *Science*. 2005; 310 (5756): 1966–70. https://doi.org/10.1126/science.1119407.
46. Makridakis N.M., di Salle E., Reichardt J.K. Biochemical and pharmacogenetic dissection of human steroid 5 alpha-reductase type II. *Pharmacogenetics*. 2000; 10 (5): 407–13. https://doi.org/10.1097/00008571-200007000-00004.
47. Haeggström J.Z., Wetterholm A., Shapiro R., et al. Leukotriene A4 hydrolase: a zinc metalloenzyme. *Biochem Biophys Res Commun*. 1990; 172 (3): 965–70. https://doi.org/10.1016/0006-291x(90)91540-9.
48. Oberlies J., Watzl C., Giese T., et al. Regulation of NK cell function by human granulocyte arginase. *J Immunol*. 2009; 182 (9): 5259–67. https://doi.org/10.4049/jimmunol.0803523.
49. Ostermann G., Weber K.S., Zernecke A., et al. JAM-1 is a ligand of the beta(2) integrin LFA-1 involved in transendothelial migration of leukocytes. *Nat Immunol*. 2002; 3 (2): 151–8. https://doi.org/10.1038/ni755.
50. Kim T., Jeon J., Park J.S., et al. Matrix metalloproteinase-8 inhibitor ameliorates inflammatory responses and behavioral deficits in LRRK2 G2019S Parkinson's disease model mice. *Transl Neurodegener*. 2020; 29 (5): 483–91. https://doi.org/10.4062/biomolther.2020.181.
51. Jakimiuk K., Gesek J., Atlas A., Tomczyk M. Flavonoids as inhibitors of human neutrophil elastase. *J Enzyme Inhib Med Chem*. 2021; 36 (1): 1016–28. https://doi.org/10.1080/14756366.2021.1927006.
52. Kunz D., Gerard N.P., Gerard C. The human leukocyte platelet-activating factor receptor cDNA cloning, cell surface expression, and construction of a novel epitope-bearing analog. *J Biol Chem*. 1992; 267 (13): 9101–6.
53. Mao S.S., Cooper C.M., Wood T., et al. Characterization of plasmin-mediated activation of plasma procarboxypeptidase B. Modulation by glycosaminoglycans. *J Biol Chem*. 1999; 274 (49): 35046–52. https://doi.org/10.1074/jbc.274.49.35046.
54. Wang S., Beck R., Blench T., et al. Studies of benzothiophene template as potent factor IXa (FIXa) inhibitors in thrombosis. *J Med Chem*. 2010; 53 (4): 1465–72. https://doi.org/10.1021/jm901475e.

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