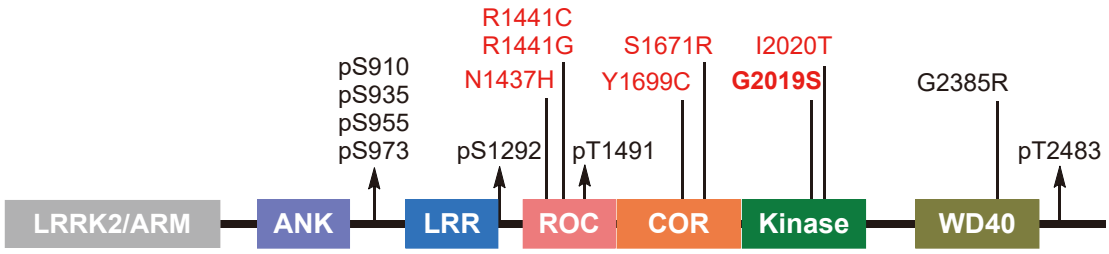
LIFE SCIENCE

Leucine-Rich Repeat Kinase 2 (LRRK2) Inhibitors

The LRRK2 is a large protein (2527 amino acids) with serine-threonine (Ser/Thr) protein kinase activity and autophosphorylation activity. It is highly expressed in many mammal tissues. Genetic mutations in the G2019S encoding portion of LRRK2 (LRRK2-G2019S) have been detected frequently in Parkinson's (PD) patients.[1] As a result, LRRK2-G2019S is a promising therapeutic target for the treatment of PD, and its inhibitors have been used as useful tools in PD research.[2-4] For more information, please refer to the application information of product detail page on our website.



Schematic of LRRK2 protein domain structure with reported PD pathogenic familial mutations sites (red).[1]

SP 600125	25mg [A2548]
Arcyriaflavin A	20mg [A3497]
Bisindolylmaleimide I	5mg / 25mg [B5781]
GW-5074	100mg [G0609]
Indirubin-3'-monoxime	50mg [I1118]
5-Iodotubercidin	200mg [I1156]
Sorafenib	500mg [O0599]
Sorafenib Tosylate	1g [N1229]
LDN-22684	100mg [L0422]
LDN-73794 (= Phendione)	1g / 5g [P1973]
Ro 31-8220 Mesylate	10mg [R0257]
Staurosporine	10mg [T4000]

For Laboratory Use, Research Purposes Only.

References

1) About Parkinson's disease and LRRK2
A. A. Estrada, Z. K. Sweeney, *J. Med. Chem.* **2015**, *58*, 6733. https://doi.org/10.1021/acs.jmedchem.5b00261
2) About A2548, B5781, I1156, L0422, O0599, P1973 and R0257
T. Kramer, B. Schmidt, *et al.*, *ACS Chem. Neurosci.* **2012**, *3*, 151. https://doi.org/10.1021/cn200117j
3) About A3497
S. Schulz, S. Göring, B. Schmidt, C. Hopf, *RSC Drug Discovery Ser.* **2013**, *34*, 266. https://doi.org/10.1039/9781849737357-00266
4) About G0609, I1118 and T4000
K. V. Christensen, G. P. Smith, D. S. Williamson, *Prog. Med. Chem.* **2017**, *56*, 37. https://doi.org/10.1016/bs.pmch.2016.11.002

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