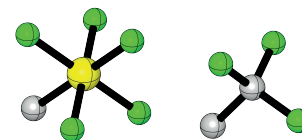


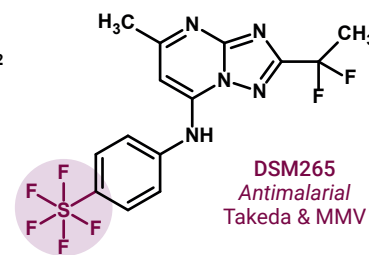
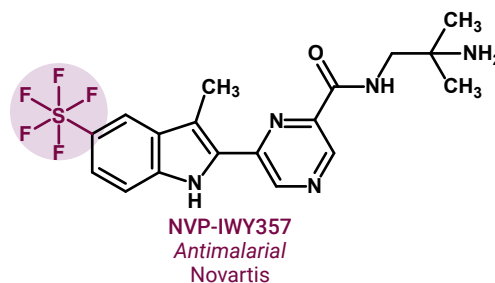
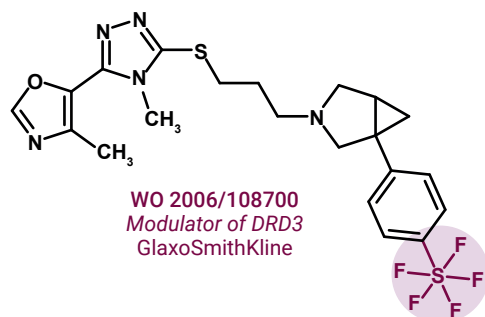
The pentafluorosulfanyl group: the new CF₃ group

The pentafluorosulfanyl (SF₅) group is considered an **emerging motif in medicinal chemistry** and materials science. Often referred to as the "super CF₃" due to its highly fluorinated, lipophilic nature, SF₅ offers **unique properties** that set it apart from other groups, with high potential in research and development of new drugs. Additionally, it is **not classified as a PFAS**, making it more sustainable.



	SF ₅	CF ₃
Intrinsic volume (Å ³)	61.4	42.7
Hammett constant (σ _p)	0.68	0.54
Lipophilicity (π _p)	1.23	0.88

The SF₅ group in drug candidates



Our expertise

We have experience in preparing and working with SF₅ compounds, offering high-quality products and innovative **solutions tailored to your research needs**. Whether you're exploring new applications in **medicinal chemistry** or material science, our team is equipped to support your projects with expert guidance and custom synthesis services.



SF₅-sp³
blocks



SF₅-sp²
blocks



Flow
chemistry



Photochemistry



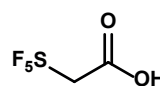
Gaseous
reagents



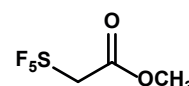
Custom
synthesis

Our products

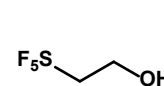
We are currently expanding our catalog of SF₅ products, with a primary focus on **sp³-rich fragments** to cover a broader area of chemical space.



PFS001



PFS002



PFS003

Additionally, we are working on related technologies, such as the underexplored **-OSF₅ fragment**, to introduce new and innovative motifs into your research.

