

Product Datasheet

Tolebrutinib

Catalog No. **BP-01956** · CAS **1971920-73-6** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-08**

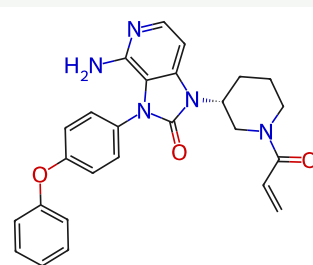
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Target Btk	Research area Neurological Disease; Inflammation/Immunology
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Molecular formula **C₂₆H₂₅N₅O₃**

Molecular weight **455.5084**

STRUCTURE



DESCRIPTION

Tolebrutinib (SAR442168) is a potent, selective and brain-penetrant BTK inhibitor, with IC₅₀s of 0.4 and 0.7 nM in Ramos B cells and in HMC microglia cells, respectively.

BIOLOGICAL ACTIVITY

Tolebrutinib (SAR442168, PRN2246) is a potent, selective and brain-penetrant inhibitor of Bruton tyrosine kinase (BTK), with IC₅₀s of 0.4 and 0.7 nM in Ramos B cells and in HMC microglia cells, respectively.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Dahl K, et, al. Radiosynthesis of a Bruton's tyrosine kinase inhibitor, [11 C]Tolebrutinib, via palladium-NiXantphos-mediated carbonylation. J Labelled Comp Radiopharm. 2020 Sep;63(11):482-487.
- [2]. Francesco MR, et, al. PRN2246, a potent and selective blood brain barrier penetrating BTK inhibitor, exhibits efficacy in central nervous system immunity. Multiple Sclerosis Journal. 2017;Poster Session 2:P989.

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