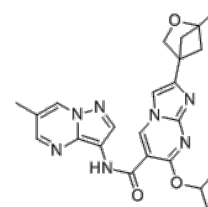


Product Name : BIO-7488
Cat. No. : PC-21921
CAS No. : 2573211-25-1
Molecular Formula : C₂₃H₂₅N₇O₃
Molecular Weight : 447.50
Target : IRAK
Solubility : 10 mM in DMSO



CAS: 2573211-25-1

Biological Activity

BIO-7488 (BIO7488) is the first potent, selective, and CNS-penetrant **IRAK4** inhibitor with IC₅₀ of 0.5 nM (1 mM ATP). BIO-7488 potently inhibits R848 stimulus of 1L-1 β production with IC₅₀ of 200 nM in human whole blood assay. BIO-7488 has limited MDR1 or BCRP efflux liability, supporting the favorable measured rat K_{pu,u} of 0.3 in rats. BIO-7488 (10, 30, or 100 mg/kg) demonstrated robust and dose-dependent suppression of multiple cytokines, including IL-1 β , TNF α , and IL-6 in LPS challenge rat model.

References

Ryan Evans, et al. *J Med Chem.* 2024 Mar 11. doi: 10.1021/acs.jmedchem.3c02226.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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